USER MANUAL

Vertige™

Ref. VRC300

ANALOG WAY®

Pioneer in Analog, Leader in Digital

THANK YOU

By reading this manual you will be able to obtain the most from your powerful **Vertige™** and its many features.

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1. INTRODUCTION

1.1 What is the Vertige

Vertige™ is a revolutionary Remote Controller integrating new ways to create and manage large events and multi-venues. The **Vertige™** brings a simple and flexible approach to show creation and management. **Vertige™** can control several screens and devices such as **Ascender 48**, **Ascender 32**, **SmartMatriX Ultra** or **NeXtage 16** systems, independently or simultaneously in any kind of combination, including Soft Edge Blending. **Vertige™**also supports linked **LiveCore™** devices (additive modularity) and **LiveCore™** Expansion modules.

1.2 Useful terms and definitions

SHOW: a “show” is a complete set up for an event containing several devices, screens, sources and presets.

ITERATION: an “iteration” is a version of a show. Iterations can be used to create backups or variants of a show. On a broader level, iterations allow refining your setup step by step.

ASSEMBLY: an “Assembly” or a “Device Assembly” handles one or several identical devices that can operate on the same screens.

SCREEN: A “Screen” is a destination where a picture will be displayed. For example, it could be a single display or a projection surface, which can be composed of one or several outputs. Each screen might use one or several layers.

PRESET: a “Preset” on the **Vertige™**, is a capture of a state of the scene (one or more screens). Preset allows storing the layout of the elements and their sources for a specific step of the event.

LAYER: a “Layer” is an image display element (such as a Background, a PIP, or a Logo) that has an associated visual priority — either in front of another layer or behind.

PIP: a “PIP” refers to Picture-in-Picture. It is a layer, typically not full size, which displays a stream on top of another layer. PIPs can be reduced, enlarged, bordered and shadowed. They can overlap one another, depending on their visual priority.

STREAM: a “Stream” can be Live (signal from an input plug) or Still (frame/logo) and allows you to display content with various settings (aspect ratio, brightness, crop…) in a layer.

SOURCE: a “source” allows the user to assign a **Vertige™** panel key to a stream (per screen).

FRAME: a “Frame” is an image, usually used to fill a background, which is selected from the still Frame library. It can also be loaded to a LiveCore™ device using the Web RCS.

LOGO: a “Logo” is a small image, usually used to display company logo or labels, which is selected from the still Logo library. It can also be loaded to a LiveCore™ device using the Web RCS.

SOFT EDGE: Soft Edge blending technology is used to compensate overlapping video projectors which display content on a single Screen. The resulting image will appear as though it were a single unified picture.

HARD EDGE: Hard Edge technology is used to display continuous content using several outputs without any overlap. The outputs are “side by side”, they don’t overlap or share pixel information. (Opposed to Soft Edge where some parts of the image are sent simultaneously to several displays.)

2. HARDWARE INSTALLATION

2.1 Safety instructions

2.1.1 English

All of the safety and operating instructions should be read before the product is operated and should be maintained for further reference. Please follow all of the warnings on this product and its operating instructions.

- **WARNING:** To prevent the risk of electric shock and fire, do not expose this device to rain, humidity or intense heat sources (such as heaters and direct sunlight). Slots and openings in the device are provided for ventilation and to avoid overheating. Make sure the device is never placed near a textile surface that could block the openings. Also keep away from excessive dust, vibrations and shocks.

- **POWER:** Only use the power supply indicated on the device of the power source. Devices equipped with a grounding plug should only be used with a grounding type outlet. In no way should this grounding be modified, avoided or suppressed. Connection of equipment to main supply must be after branch circuit breaker of the building installation.

- **POWER CORD:** The device is equipped with 2 detachable power cords, to remove mains, disconnect them at appliance coupler.

Caution: The power cords constitute the only mean to completely disconnect the equipment from the main power. To make sure the device is not supplied, these two cords must be unplugged from the mains outlet.

Use the following guidelines:

- The equipment connected to the network must have a release system easily accessible and located outside the unit.
- Unplug both power cords; do not pull on the power cords but always on the plug itself.
- The outlets should always be near the device and easily accessible.
- Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them.

If one of the power supply cords is damaged, unplug the device. Using the device with a damaged power supply cord may expose your device to electric shocks or other hazards. Verify the condition of the power supply cords periodically. Contact your dealer or service center for replacement if damaged.

- **CONNECTIONS:** All inputs and outputs (except for the power input) are Safety Extra Low Voltage (SELV) circuits as defined in UL/IEC 60950-1.

- **SERVICING:** Do not attempt to service this product yourself by opening or removing covers and screws since it may expose your device to electric shocks or other hazards. Refer all problems to qualified service personnel.

- **OPENINGS:** Never push objects of any kind into this product through the openings. If liquids have been spilled or objects have fallen into the device, unplug it immediately and have it checked by a qualified technician.

2.1.2 French

Afin de mieux comprendre le fonctionnement de cet appareil nous vous conseillons de bien lire toutes les consignes de sécurité et de fonctionnement avant utilisation. Conservez les instructions de sécurité et de fonctionnement afin de pouvoir les consulter ultérieurement. Respectez toutes les consignes marquées dans la documentation, sur le produit et sur ce document.

- **ATTENTION :** Afin de prévenir tout risque de choc électrique et d'incendie, ne pas exposer cet appareil à la pluie, à l'humidité ou à des sources de chaleur intense.

- **INSTALLATION :** Veillez à assurer une circulation d'air suffisante pour éviter toute surchauffe à l'intérieur de l'appareil. Ne placez pas l'appareil sur ou à proximité d'une surface textile susceptible d'obstruer les orifices de ventilation. N'installez pas l'appareil à proximité de sources de chaleur comme un radiateur ou une poche d'air chaud, ni dans un endroit exposé au rayonnement solaire direct, à des poussières excessives, à des vibrations ou à des chocs mécaniques. Ceci pourrait provoquer un mauvais fonctionnement et un accident.

- **ALIMENTATION :** Ne faire fonctionner l'appareil qu'avec la source d'alimentation indiquée sur l'appareil. Les appareils doivent être obligatoirement connectés sur une source équipée d'une mise à la terre efficace. En aucun cas cette liaison de terre ne devra être modifiée, contournée ou supprimée. Raccordement des équipements à l'alimentation principale doit être postérieur au disjoncteur de branchement de l'installation électrique du bâtiment.

- **CORDON D'ALIMENTATION :** Les appareils sont équipés de 2 cordons d'alimentation détachable, la mise hors tension se fait en débranchant ces cordons de l'appareil.

Attention : Les appareils sont équipés de 2 cordons d'alimentation détachable, la mise hors tension se fait en débranchant ces cordons de l'appareil.

Appliquer les consignes suivantes :

- Le matériel relié à demeure au réseau, doit avoir un dispositif de sectionnement facilement accessible qui doit être incorporé à l'extérieur de l'appareil.
- Débrancher les 2 cordons d'alimentation de la prise murale si vous prévoyez de ne pas utiliser l'appareil pendant quelques jours ou plus.
- Pour débrancher les cordons, tirez-les par la fiche. Ne tirez jamais sur les cordons proprement dit.
- Les prises d'alimentation doivent se trouver à proximité de l'appareil et être aisément accessibles.
- Ne laissez pas tomber les cordons d'alimentation et ne posez pas d'objets lourds dessus.

Si un des 2 cordons d'alimentation est endommagé, débranchez-le immédiatement de la prise murale. Il est dangereux de faire fonctionner un appareil avec un cordon endommagé ; un câble abîmé peut provoquer un risque d'incendie ou un choc électrique. Vérifiez les câbles d'alimentation de temps en temps. Contactez votre revendeur ou le service après-vente pour un remplacement.

- **CONNEXIONS :** Toutes les entrées et sorties (exceptée l'entrée d'alimentation) sont des circuits de très basse tension de sécurité (TBTS) tels que définis dans UL / IEC 60950-1.

- **RÉPARATION ET MAINTENANCE :** L'utilisateur ne doit en aucun cas essayer de procéder aux opérations de dépannage, car l'ouverture des appareils par retrait des capots ou de toutes autres pièces constituant les boîtiers ainsi que le dévissage des vis apparentes à l'extérieur, risquent d'exposer l'utilisateur à des chocs électriques ou autres dangers. Contactez le service après-vente, votre revendeur ou adressez-vous à un personnel qualifié uniquement.

- **OUVERTURES ET ORIFICES :** Les appareils peuvent comporter des ouvertures (aération, fentes, etc...), veuillez ne jamais y introduire d'objets et ne jamais obstruer ses ouvertures. Si un liquide ou un objet pénètre à l'intérieur de l'appareil, débranchez immédiatement l'appareil et faites-le contrôler par un personnel qualifié avant de le remettre en service.

2.1.3 Italian

Allo scopo di capire meglio il funzionamento di questa apparecchiatura vi consigliamo di leggere bene tutti i consigli di sicurezza e di funzionamento prima dell'utilizzo. Conservare le istruzioni di sicurezza e di funzionamento al fine di poterle consultare ulteriormente. Seguire tutti i consigli indicati su questo manuale e sull'apparecchiatura.

- **ATTENZIONE:** Al fine di prevenire qualsiasi rischio di shock elettrico e d'incendio, non esporre l'apparecchiatura a pioggia, umidità e a sorgenti di eccessivo calore.

- **INSTALLAZIONE:** Assicuratevi che vi sia una sufficiente circolazione d'aria per evitare qualsiasi surriscaldamento all'interno dell'apparecchiatura. Non collocare l'apparecchiatura in prossimità o su superfici tessili suscettibili di ostruire il funzionamento della ventilazione. Non installate l'apparecchiatura in prossimità di sorgenti di calore come un radiatore o una fuoruscita d'aria calda, né in un posto esposto direttamente ai raggi del sole, a polvere eccessiva, a vibrazioni o a shock meccanici. Ció potrebbe provocare un erroneo funzionamento e un incidente.

- **ALIMENTAZIONE:** Far funzionare l'apparecchiatura solo con la sorgente d'alimentazione indicata sull'apparecchiatura. Le apparecchiature queste devono essere obbligatoriamente collegate su una sorgente fornita di una efficiente messa a terra. In nessun caso questo collegamento potrà essere modificato, sostituito o eliminato. Connessione delle apparecchiature alla rete elettrica deve essere successiva interruttore di circuito dell'impianto dell'edificio.

- **CAVO DI ALIMENTAZIONE:** Il dispositivo è dotato di due cavi di alimentazione removibile, per rimuovere le alimentazioni scollegare i cavi dalla Presa.

Attenzione: i cavi di alimentazione sono l'unico di disconnettere l'apparecchio all'alimentazione. Per assicurarsi che l'apparecchio e totalmente scollegato, i cavi devono essere disconessi della presa murale.

Seguire le instruzioni seguenti:

- Il materiale collegato a residenza alla rete, deve avere un dispositivo di sezionamento facile da raggiungere e che deve essere inserito all'esterno del apparecchio.
- Scollegare l'apparecchiatura dalla presa a muro se si prevede di non utilizzarla per qualche giorno.
- Per disconnettere il cavo, tirare facendo forza sul connettore.
- La prese d'alimentazione deve trovarsi a prossimità dell'apparecchiatura ed essere facilmente accessibile.
- Non far cadere il cavo di alimentazione né appoggiarci sopra degli oggetti pesanti. Se il cavo di alimentazione é danneggiato, spegnere immediatamente l'apparecchiatura.

E' pericoloso far funzionare questa apparecchiatura con cavi di alimentazione danneggiati, cavi graffiati possono provocare un rischio di incendio o uno shock elettrico. Verificare spesso i cavi di alimentazione. Contattare il vostro rivenditore o il servizio assistenza per una sostituzione.

- **CONNESSIONE:** Tutti gli ingressi e le uscite (tranne che per la potenza in ingresso) sono bassissima tensione di sicurezza (SELV) circuiti definiti UL / IEC 60950-1.

- **RIPARAZIONI E ASSISTENZA:** L'utilizzatore non deve in nessun caso cercare di riparare l'apparecchiatura, poiché con l'apertura del coperchio metallico o di qualsiasi altro pezzo costituente la scatola metallica, nonché svitare le viti che appaiono esteriormente, poiché ció puó provocare all'utilizzatore un rischio di shock elettrico o altri rischi.

- **APERTURE DI VENTILAZIONE:** Le apparecchiature possono comportare delle aperture di ventilazione, si prega di non introdurre mai oggetti o ostruire le sue fessure. Se un liquido o un oggetto penetra all'interno dell'apparecchiatura, disconnetterla e farla controllare da personale qualificato prima di rimetterla in servizio.

2.1.4 German

Um den Betrieb dieses Geräts zu verstehen, raten wir Ihnen vor der Inbetriebnahme alle Sicherheits und Betriebsanweisungen genau zu lesen. Diese Sicherheits- und Betriebsanweisungen für einen späteren Gebrauch sicher aufbewahren. Alle in den Unterlagen, an dem Gerät und hier angegebenen Sicherheitsanweisungen einhalten.

- **ACHTUNG:** um jegliches Risiko eines Stromschlags oder Feuers zu vermeiden, das Gerät nicht Regen, Feuchtigkeit oder intensiven Wärmequellen aussetzen.

- **EINBAU:** Eine ausreichende Luftzufuhr sicherstellen, um jegliche Überhitzung im Gerät zu vermeiden. Das Gerät nicht auf und in Nähe von Textiloberflächen, die Belüftungsöffnungen verschließen können, aufstellen. Das Gerät nicht in Nähe von Wärmequellen, wie z.B. Heizkörper oder Warmluftkappe, aufstellen und es nicht dem direkten Sonnenlicht, übermäßigem Staub, Vibrationen oder mechanischen Stößen aussetzen. Dies kann zu Betriebsstörungen und Unfällen führen.

- **STROMVERSORGUNG:** Das Gerät nur mit der auf dem Gerät bezeichnete Stromquelle betreiben. Gerät mit geerdeter Hauptstromversorgung muss an eine Stromquelle mit effizienter Erdung angeschlossen werden. Diese Erdung darf auf keinen Fall geändert, umgangen oder entfernt werden. Anschluss von Geräten ans Stromnetz muss nach Abzweigschalter des Gebäudes Installation.

- **NETZKABEL:** Das Gerät ist mit einem lösbaren Netzkabel ausgestattet ; um es völlig vom Netz zu trennen, ziehen Sie bitte das Netzkabel aus der Kaltgerätebuchse.

Achtung: Das Netzkabel stellt die einzige Möglichkeit dar, das Gerät vollständig vom Netzanschluss zu trennen. Um sicherzustellen, dass das Gerät nicht mehr versorgt wird, muss dieses Kabel aus der Netzsteckdose ausgesteckt werden.

Bitte beachten Sie die folgenden Hinweise:

- Wenn Geräte dauerhaft am Netz bleiben, müssen sie über eine leicht zugängliche Trennvorrichtung verfügen, die außen am Gerät angebracht sein muss.
- Das Kabel mittels des Steckers herausziehen. Niemals am Stromkabel selbst ziehen.
- Die Steckdose muss sich in der Nähe des Geräts befinden und leicht zugänglich sein.
- Das Stromkabel nicht fallen lassen und keine schweren Gegenstände darauf stellen.

Wenn eines der beiden Stromkabel beschädigt ist, das Gerät sofort abschalten. Es ist gefährlich, das Gerät mit einem beschädigten Stromkabel zu betreiben; ein abgenutztes Kabel kann zu einem Feuer oder Stromschlag führen. Die Stromkabel regelmäßig untersuchen. Für Ersatz wenden Sie sich an Ihren Verkäufer oder eine Kundendienststelle.

- **ANSCHLÜSSE:** Alle Eingänge und Ausgänge (mit Ausnahme der Stromversorgung) sind Safety Extra Low Voltage (SELV) Schaltungen wie in UL / IEC 60950-1 definiert.

- **REPARATUR UND WARTUNG:** Der Benutzer darf keinesfalls versuchen das Gerät selbst zu reparieren, die Öffnung des Geräts durch Abnahme der Abdeckhaube oder jeglichen anderen Teils des Gehäusessowie die Entfernung von außen sichT-baren Schrauben zu Stromschlägen oder anderen Gefahren für den Benutzer führen kann. Wenden Sie sich an Ihren Verkäufer, Ihre Kundendienststelle oder an qualifizierte Fachkräfte.

- **ÖFFNUNGEN UND MUNDUNGEN:** Die Geräte können über Öffnungen verfügen (Belüftung, Schlitze, usw.). Niemals Gegenstände in die Öffnungen einführen oder die Öffnungen verschließen. Wenn eine Flüssigkeit oder ein Gegenstand in das Gerät gelangt, den Stecker herausziehen und es vor einer neuen Inbetriebnahme von qualifiziertem Fachpersonal überprüfen lassen.

2.1.5 Spanish

Para comprender mejor el funcionamiento de este aparato, le recomendamos que le acuidadosamente todas las consignas de seguridad y de funcionamiento del aparato antes de usarlo. Conserve las instrucciones de seguridad y de funcionamiento para que pueda consultarlas posteriormente. Respete todas las consignas indicadas en la documentación, relacionadas con el producto y este documento.

- **CUIDADO:** Para prevenir cualquier riesgo de choque eléctrico y de incendio, no exponga este aparato a la lluvia, a la humedad ni a fuentes de calorintensas.

- **INSTALACIÓN:** Cerciórese de que haya una circulación de aire suficiente para evitar cualquier sobrecalentamiento al interior del aparato. No coloque el aparato cerca ni sobre una superficie textil que pudiera obstruir los orificios de ventilación. No instale el aparato cerca de fuentes de calor como radiador o boca de aire caliente, ni en un lugar expuesto a los rayos solares directos o al polvo excesivo, a las vibraciones o a los choques mecánicos. Esto podría provocar su mal funcionamiento o un accidente.

- **ALIMENTACIÓN:** Ponga a funcionar el aparato únicamente con la fuente de alimentación que se indica en el aparato. Los aparatos deben estar conectados obligatoriamente a una fuente equipada con una puesta a tierra eficaz. Por ningún motivo este enlace de tierra deberá ser modificado, cambiado o suprimido. Conexión del equipo a la red eléctrica debe ser posterior del interruptor de circuitos derivados de la instalación del edificio.

- **CABLE DE CORRIENTE:** El equipo se suministra con 2 cables de alimentación, si desconectamos los cables dejamos al equipo sin alimentación.

Atención: Los cables de alimentación constituyen el único medio de desconectar el aparato totalmente de la red eléctrica. Para estar seguro de que el aparato no está más alimentado, estos dos cables deben estar desconectados de la toma de corriente.

Aplicar las siguientes consignas:

- El material conectado a residencia a la red informática, debe de tener un dispositivo de seccionamiento fácilmente accesible que debe de ser incorporado al exterior del aparato.
- Desconectar el aparato del enchufe mural si no piensa utilizarlo durante varios días.
- Para desconectar los cables, tire de la clavija. No tire nunca de los cables propiamente dichos.
- El enchufes de alimentación debe estar cerca del aparato y ser de fácil acceso.
- No deje caer los cables de alimentación ni coloque objetos pesados encima de ellos.

Si uno de dos cables de alimentación sufriera algún daño, ponga el aparato inmediatamente fuera de tensión. Es peligroso hacer funcionar este aparato con un cable averiado, ya que un cable dañado puede provocar un incendio o un choque eléctrico. Verifique el estado los cables de alimentación de vez en cuando. Póngase en contacto con su distribuidor o con el servicio de posventa si necesita cambiarlo.

- **CONEXIONES:** Todas las entradas y salidas (a excepción de la entrada de alimentación) son de tensión extra baja de seguridad (SELV) circuitos definidos en UL / IEC 60950-1.

- **REPARACIÓN Y MANTENIMIENTO:** Por ningún motivo, el usuario deberá tratar de efectuar operaciones de reparación, ya que si abre los aparatos retirando el capó o cualquier otra pieza que forma parte de las cajas o si destornilla los tornillos aparentes exteriores, existe el riesgo de producirse una explosión,choques eléctricos o cualquier otro incidente. Contacte el servicio de posventa, a su distribuidor o dirigirse con personal cualificado únicamente.

- **ABERTURAS Y ORIFICIOS:** Los aparatos pueden contener aberturas (aireación, ranuras, etc.). Nointroduzca allí ningún objeto ni obstruya nunca estas aberturas. Si un líquido o un objeto penetra al interior del aparato, desconéctelo y hágalo revisar por personal cualificado antes de ponerlo nuevamente en servicio.

2.2 Environmental specifications

- Cooling air flows from front side to rear.
- Max ambient operating temperature: < 40°C (< 104°F).
- Operating temperature: 0 to +40°C / +32°F to +104°F
- Storage temperature: -40 to +70°C / -40°F to +158°F
- Operating humidity: 10 to 80% (non condensing)
- Input voltage range: 100-240 VAC autosensing, 50/60 Hz
- Typical consumption: 225 W

ELECTRICAL SECURITY:

- IEC 60950-1:2005 (2nd Edition); Am 1:2009
- EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011, CSA C22.2; National Differences specified in the CB Test Report
- ETL listed (Canada & US)

ELECTROMAGNETIC COMPATIBILITY:

- IEC 61000-3-2 (2009)
- IEC 61000-3-3 (2008)
- CISPR22 (2008)
- CISPR24 (2010)
- FCC Part15 of 2012
- IECS-003 of August 2012

ENVIRONMENT:

- RoHS
- WEEE

USE/TRANSPORT:

- ETS 300 019-2-2: Environmental conditions and environmental tests for telecommunications equipment ; Part 2-2 : specification of environmental tests ; Transportation ; Specification T 2.3: Public transportation
- ETS 300 019-2-3: Environmental conditions and environmental tests for telecommunications equipment ; Part 2-3 : specification of environmental tests ; Stationary use at weather protected locations ; Specification T 3.1 and T 3.1 E: Temperature-controlled locations

If your device should lose power unexpectedly, you may lose any unsaved settings.

2.3 Hardware specifications

Dimensions:

- W 740 x D 510 x H 200 mm
- W 29.2” x D 20.0” x H 7.9”

Weight:

- 15 kg / 33 lbs

Shipping Weight:

- 20 kg / 44 lbs

Electrical Requirements:

Required Voltage: 100-240 VAC
Required Amperage: 2.5A between the two power supplies

2.4 Unpacking and inspection

- 1 x **Vertige™ (VRC300) remote controller**
- 2 x Power supply cords
- 1 x User manual (PDF version)*
- 1 x Quick start guide*

** The User manual and the Quick start guide are available on www.analogway.com*

2.5 The Vertige™ rear panel

1. Power Supply: Dual, redundant power supply with fuse as standard equipment.

2. On/Off button: Switch on/off the device.

3. Connection Panel: Ethernet LAN adapters to control devices.

IMPORTANT: Audio, RS232 and HDMI connectors are reserved for Factory use only.

3. THE VERTIGE™ FRONT PANEL

3.1 Overview

1- Touch screen

The touch screen 15’’6 Wide displays comfortably on the same page the representation of the Program & Preview of a typical scene (Blend + 2 satellites). It is important to have the whole scene represented to work on multiple layers from different screens at the same time (change of source of background, for example). It is useful to have both states Program/Preview shown at the same time as the LiveCore™ series allows you to change one or the other at any time (even during an effect).

2- Preset section

This section allows the user to save/load its scene presets (10 direct access presets and a page mechanism to organize them).

3- Layer section

This section enables the operator to select a set of layers which belong to different screens in order to edit them simultaneously. Various criteria are used to perform advanced combinations. It will be possible to save those combinations for later use.

4- Source section

This section allows assigning sources to the selected layers in Program or Preview. Twelve contextual buttons display the name of sources. The page mechanism allows benefiting from numerous sources in association with the management of plugs for the LiveCore™ series.

5- Control section

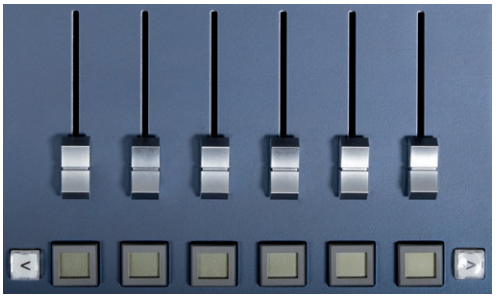
This section enables the operator to select which preset to work with, and have direct access to basic functions applied to all selected layers (Clear, Unify ...).

6- Edit section

This section allows the operator to edit the selected layers in three different ways: roughly by the joystick, finely by coders or directly by numpad. The block containing the numpad is contextual and also provides access to pages of shortcuts, tools, layer presets (position, size, border, effect …).

7- Transition section

This section enables the operator to use the T-Bar for transitions. Sliders can be used like T-Bar (Effects) or like Faders (Alpha). They are motorized in order to see the current state of the selection.



8- Control Transition

This section allows giving a specific role to the sliders:
- In FX mode, they allow to individually mix each screen
- In Alpha mode, where different layers of different screens can be assigned to a slider, they will allow to control the layer opacity (transparency).

IMPORTANT: The front panel is available as soon as an iteration is loaded. The front panel is dedicated to presets and transitions and the touch screen state will never interfere with it.

3.2 Color codes

The **Vertige™** buttons were designed with a handy color code to guide users, avoid mistakes, and give a constant status of the device. Thus, all Vertige buttons have two or three different states (and colors), depending on their function and their current state.

All standard buttons mapped to an available function/slot light up **GREEN**.
All contextual buttons mapped to an available function/slot light up **BLUE**.
Any of these buttons turns **YELLOW** when the function/slot is selected/filled.
If one of these buttons blinks **YELLOW**, it means the function/slot is waiting for a confirmation (a second consecutive press).

All double sized buttons like **PROGRAM** or **PREVIEW** are either **OFF** or lighten up in **RED** to indicate the current mode.

TAKE CUT & **TAKE** buttons are always **RED** and will **BLINK** when there is a Take in progress.

4. STARTING WITH THE VERTIGE™

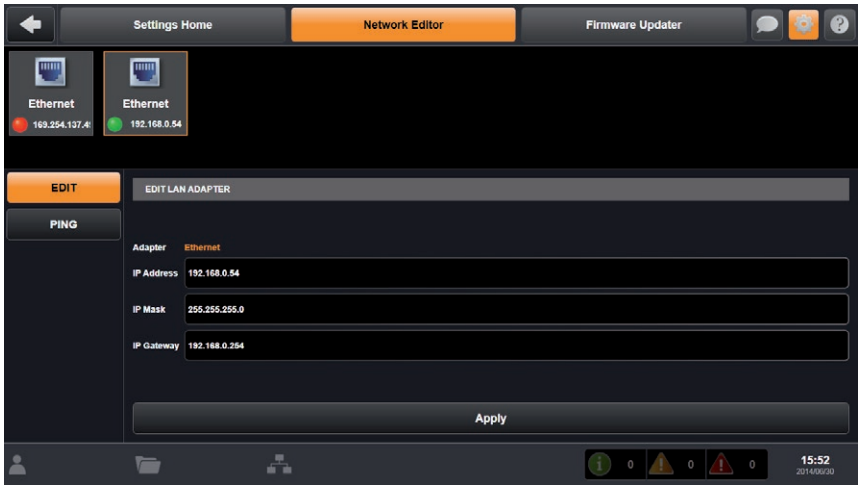
4.1 Operational configuration

4.1.1 System configuration

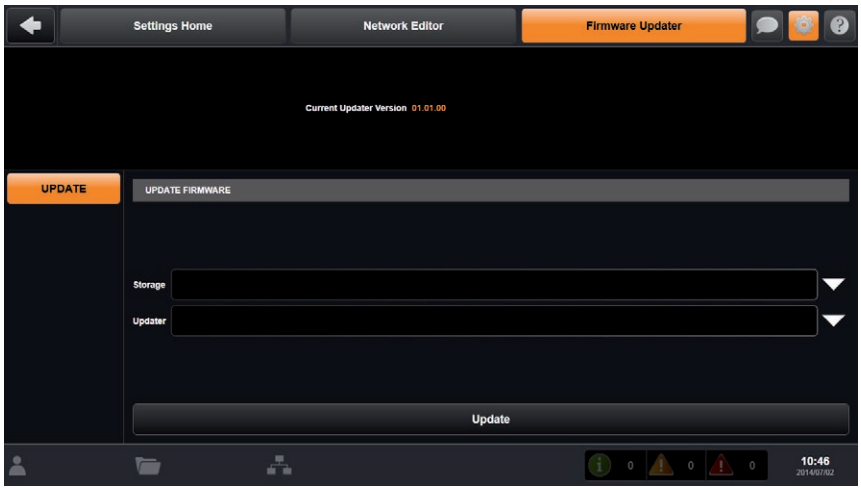
When the **Vertige™** starts up, the **Home** page is automatically displayed. Press the **START** button, then press the **Vertige™ SETTINGS** button in the upper-right corner.

The **Vertige™** Settings page allows you to configure the IP address of the **Vertige™** and update it via a USB port:

• Configuring the network:
In the top bar, select the **Network Editor** tab. Select the Ethernet port used by the **Vertige™** on your network then enter the corresponding IP address, subnet mask and gateway. When ready, press the **Apply** button.



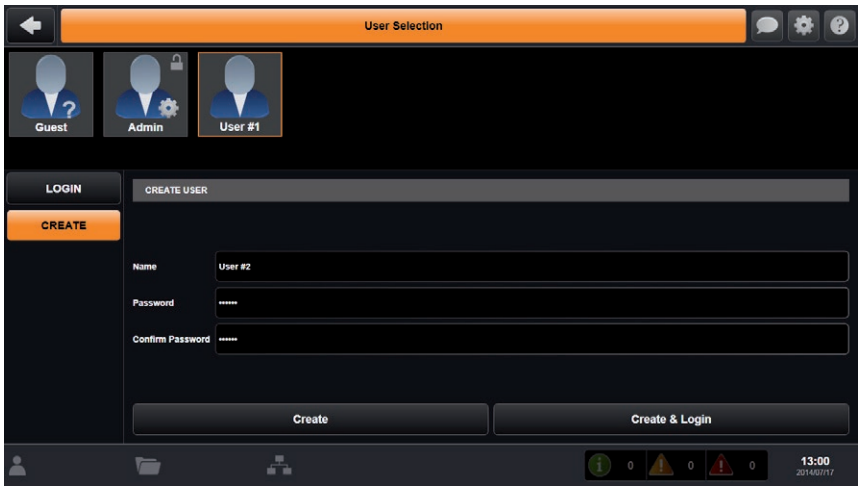
• Updating the firmware:
In the top bar, select the **Firmware Updater** tab. The upper area displays the current firmware version. Make sure the USB flash drive you are using contains an up-to-date version of the **Vertige™** firmware. Plug this USB flash drive into one of the **Vertige™** USB connectors. Wait for the device to appear in the **Storage** list then select it to display the firmware updaters available. Select the desired update from the list then press the **Update** button to start updating the **Vertige™.**



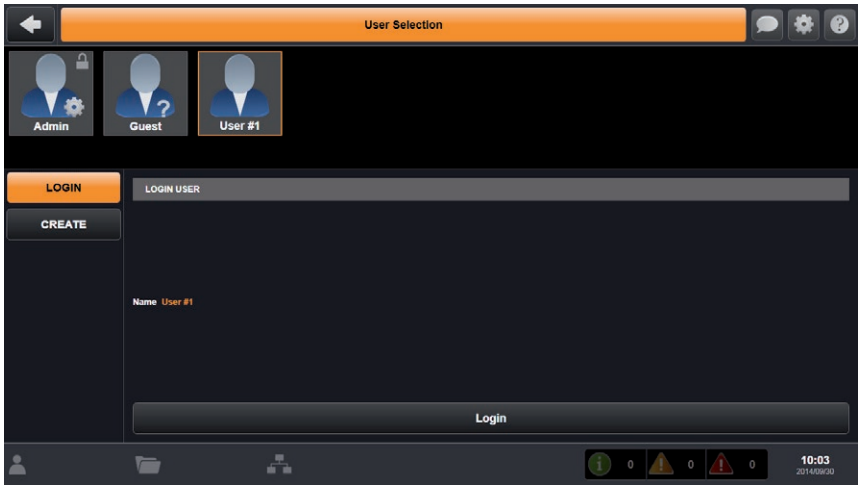
IMPORTANT: Do not remove the USB flash drive or turn off the power while updating.

4.1.2 User selection

The **User Selection** page allows you to login and manage user accounts:



• **Creating a new user account:**
In the left menu, select the **CREATE** option. Enter the user's name. If this user account needs to be password-protected then enter the corresponding password in the **Password** and **Confirm Password** fields. When ready, press the **Create** button. You can also press the **Create & Login** button to create the user account and log in automatically.



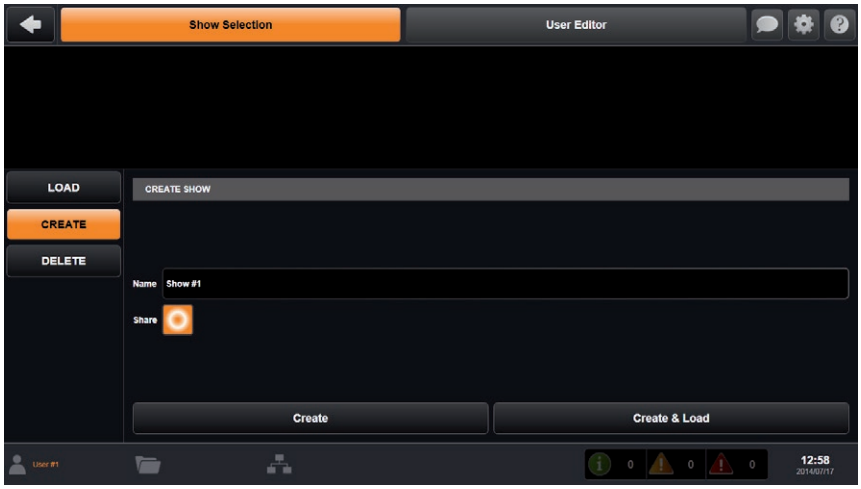
• **Logging in:**
In the left menu, select the **LOGIN** option then select an existing user account. If this user account is password-protected, enter the corresponding password. When ready press the **Login** button to log in and display the **Show Selection** page.

Note: There are two predefined user accounts available: Admin and Guest. As a Guest account user, you can't create any show; you are only allowed to load shows that have been shared by other users (read only). As an Admin account user, you can only manage user accounts (reset passwords, delete user accounts…)

IMPORTANT: the password for the Admin account is "Password".

4.1.3 Show selection

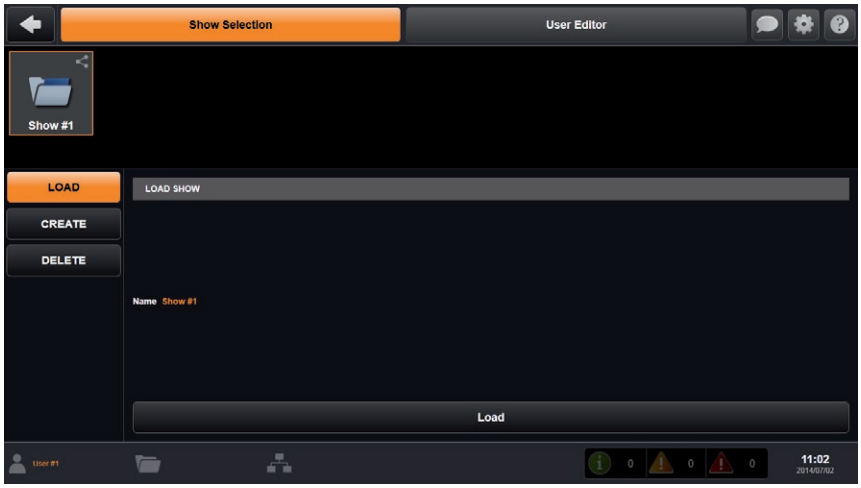
The **Show Selection** page allows you to manage shows for the currently logged-in user:



• **Creating a new show:**
In the left menu, select the **CREATE** option then enter the name of the show. Check the **Share** box if you intend to share this show with any other users (read only). When ready, press the **Create** button. You can also press the **Create & Load** button to create the show and load it automatically.

Note: Creating a show will automatically create a default iteration.

• **Loading a show:**
In the left menu, select the **LOAD** option. Select the show you want to load and then press the **Load** button to load this show and display the **Iteration Selection** page.



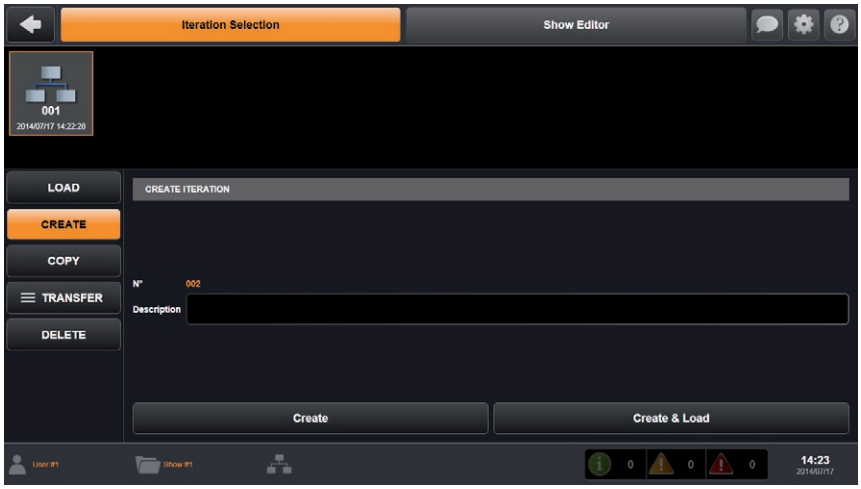
• **Deleting a show:**
In the left menu, select the **DELETE** option. Select the show you want to delete and then press the **Delete** button to permanently erase this show.

This action cannot be undone.

4.1.4 Iteration selection

The **Iteration Selection** page allows you to manage iterations for the current show. Each show can have many Iterations, each representing a branch or restore point of your configuration.
For example, if you re-use a file from a previous show, you may wish to create a new iteration as clone of the previous one, and work within the new Iteration. This would allow you to make new updates and changes to the show, but still allow you to use your previous version if necessary.

• **Creating a new iteration:**
In the left menu, select the **CREATE** option then enter a description for this iteration. When ready, press the **Create** button. You can also press the **Create & Load** button to create the iteration and load it automatically.

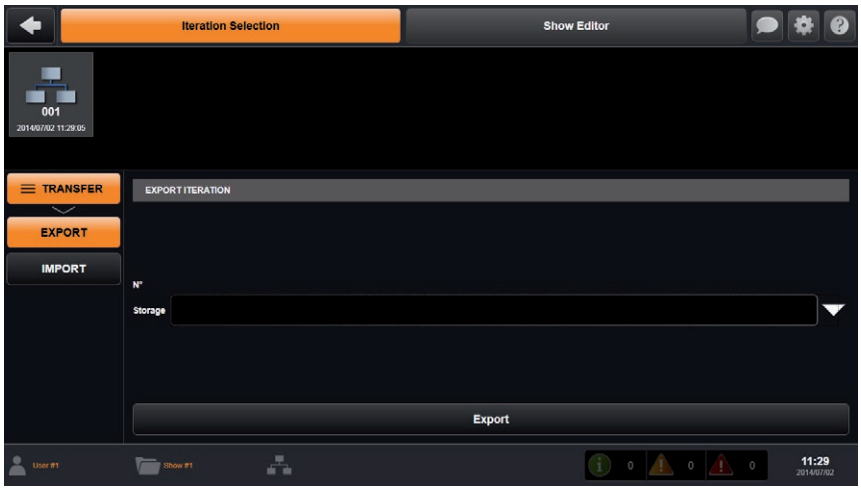


• **Copying an iteration:**
In the left menu, select the **COPY** option. Select the iteration you want to duplicate in the **From** field. You can optionally enter a description for this iteration. When ready, press the **Copy** button. You can also press the **Copy & Load** button to copy the iteration and load it automatically.

• **Deleting an iteration:**
In the left menu, select the **DELETE** option. Select the iteration you want to delete and then press the **Delete** button.

This action cannot be undone.

• **Loading an iteration:**
In the left menu, select the **LOAD** option. Select the iteration you want to load and then press the **Load** button to load this iteration and begin working on your show.

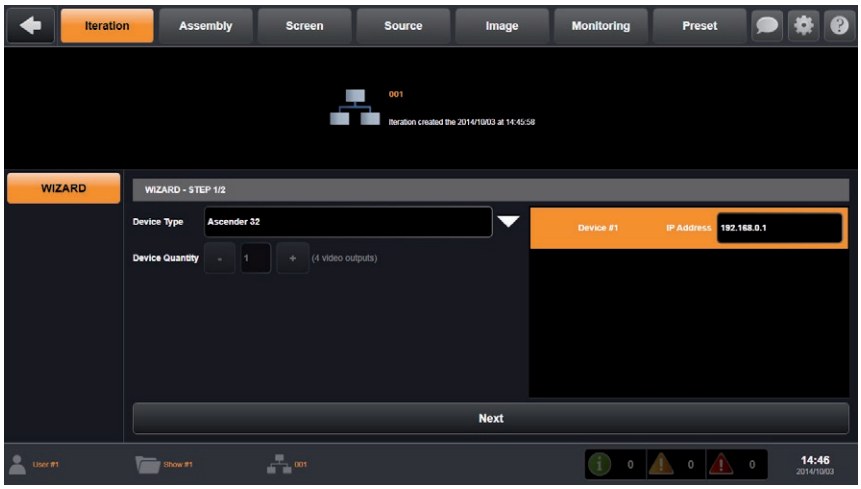


• **Exporting an iteration to a USB key:**
In the left menu, select **TRANSFER** then select the **EXPORT** option. Select the iteration you want to export then plug a USB flash drive into one of the **Vertige™** USB connectors. Wait for the device to appear in the **Storage** list, then select it and press the **Export** button to start exporting this iteration.

• **Importing an iteration from a USB key:**
In the left menu, select **TRANSFER** then select the **IMPORT** option. Plug a USB flash drive into one of the **Vertige™** USB connectors. Wait for the device to appear in the **Storage** list, then select it to display the iterations available. Select the iteration you want to import then press the **Import** button to start importing it into the current show (as a new iteration index).

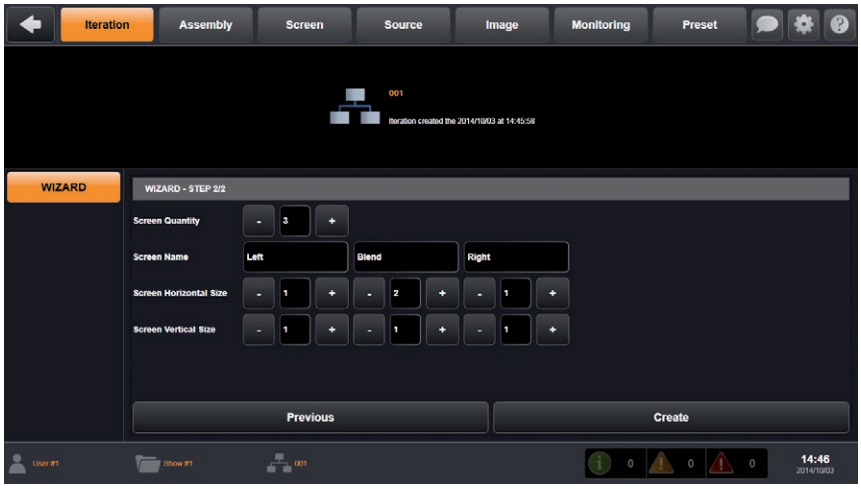
4.1.5 Iteration Wizard

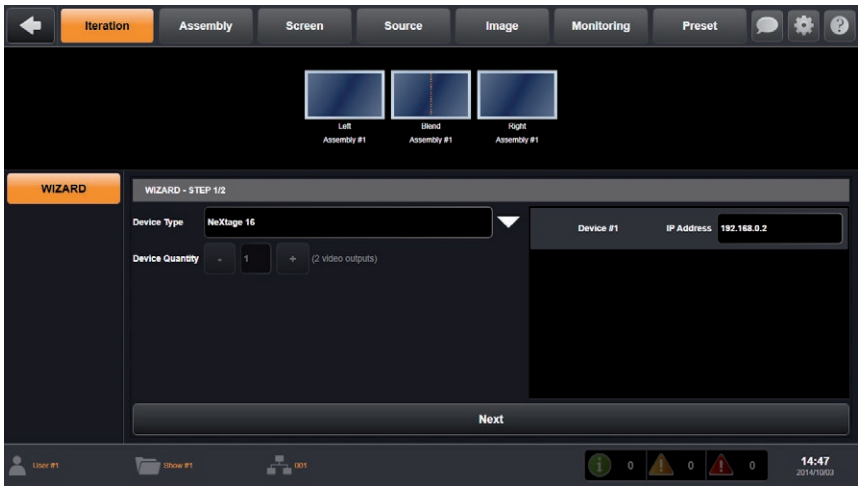
The **Iteration Wizard** page is the first step you should go through once you have loaded an empty iteration. It allows you to setup one device in just a few quick steps:



Wizard Step 1:
In the **Device Type** field, select the type of device you want to control. Select a quantity for this kind of devices then adjust each device IP address to match your network configuration. Press the **Next** button to continue.

Wizard Step 2:
Select the total number of screens wired to your devices. Rename each screen if necessary. If some of the screens will be used for a blend, adjust their size accordingly. When ready, press the **Create** button to start creating automatically the assembly as well as the related devices, screens, streams, sources and front panel key bindings (with predefined default values). Once completed, the Wizard returns to the first page and the above area is updated to reflect the latest changes and the newly created screens.





If your event requires setting up more devices and screens, use the wizard as many times as necessary. After using the wizard, you may have to adjust some default settings in the assemblies, screens or sources: Select the **ASSEMBLY** tab in the top bar then select an assembly that has just been created by the **Wizard** (it should be named “Assembly #X” where X is the index of the assembly). In the left menu, select **CONFIGURE** then select the **INPUT** option and press the **Auto Set All** button to set up automatically all the inputs.

Select the **STREAM** option to display the streams automatically created for this assembly. Make sure each ‘Live’ stream matches the correct input plug. Then you can go to the **Preset** page and start assigning sources to the screen layers (see the “Operating the Vertige” section).

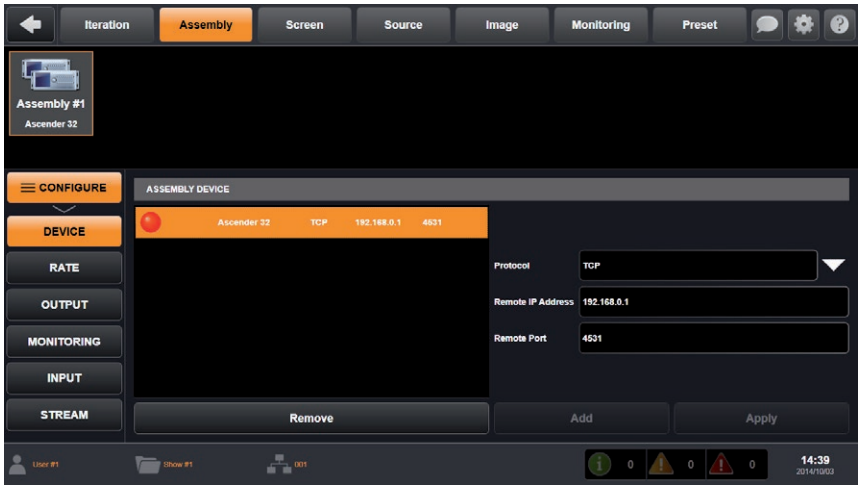
4.1.6 Assembly configuration

The **Assembly** page allows you to manage device assemblies.

- **Creating a new assembly:**

Select the **CREATE** option in the left menu and then enter the name of the assembly. Select the type of device that will be handled by this assembly then press the **Create** button to create an empty assembly.

- **Configuring assembly devices:**



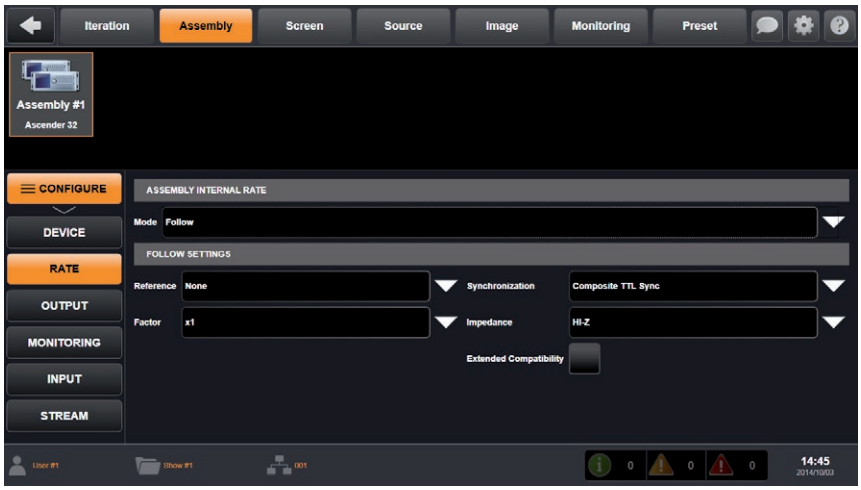
In the left menu, select **CONFIGURE** then select the **DEVICE** option. Select the assembly for which you want to configure the devices. To add a new device into the assembly, select the communication protocol, adjust the LAN settings to match the device you are trying to connect to, and press the **Add** button.

The **Vertige™** will automatically try to connect to the device. Once the device is successfully connected, the icon next to the device will turn green.

To edit existing device properties, select a device in the list and adjust the desired properties. When done, press the **Apply** button to save your changes. To delete a device, simply select the corresponding item in the list and press the **Remove** button.

• **Configuring internal rate:**

In the left menu, select the **RATE** option then select the assembly for which you want to configure the rate. Here you have to define the global internal rate of the devices which will be the rate of your Program output(s). This rate can be defined:

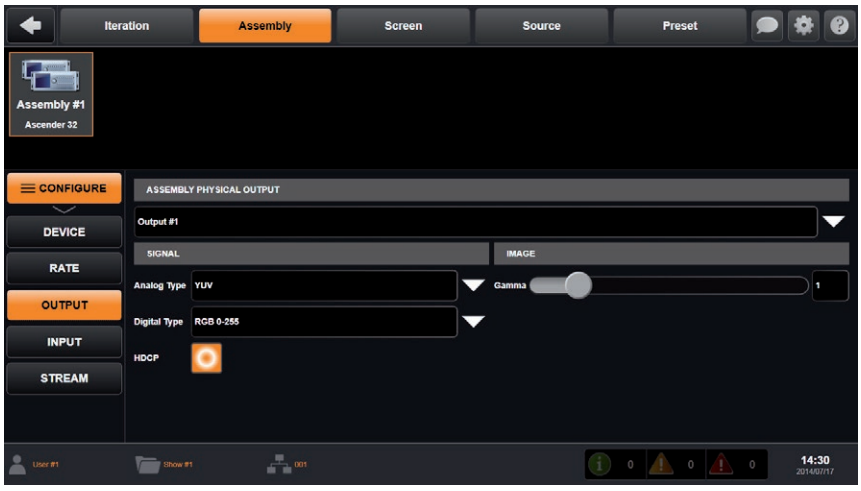


- **Internally from the devices:** Select the Internal option then select the desired internal rate (25Hz, 50 Hz, 60Hz …).
- **By choosing to follow one of the inputs:** Select the Follow option then in the Reference list, select the input from where the output rate will be copied and adjust the other follow settings if necessary.
- **By choosing to follow a dedicated framelock input:** Select the Framelock option and adjust the other framelock settings if necessary.

Configuring the rate to follow an input will lock the output frame rate to match the selected source. This is useful to eliminate the “strobing effect” which may be visible as an artifact of the framelocking process. However, be sure that your reference input is a reliable source, as any disruptions in the reference signal may cause visible glitches on your output, even if the selected reference input is not currently being displayed.

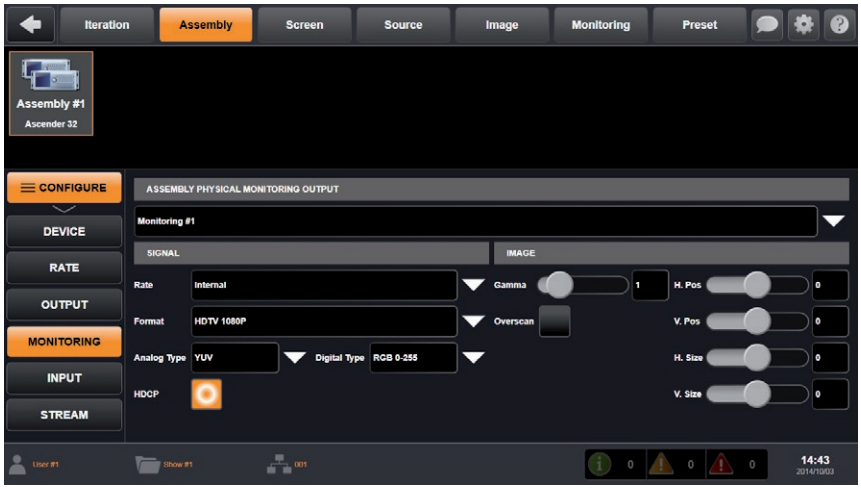
• **Configuring the device outputs:**

In the left menu, select the **CONFIGURE / OUTPUT** option then select the assembly for which you want to configure the outputs: Select one of the physical outputs in the list then adjust the settings accordingly (HDCP protection, Gamma, signal type…).

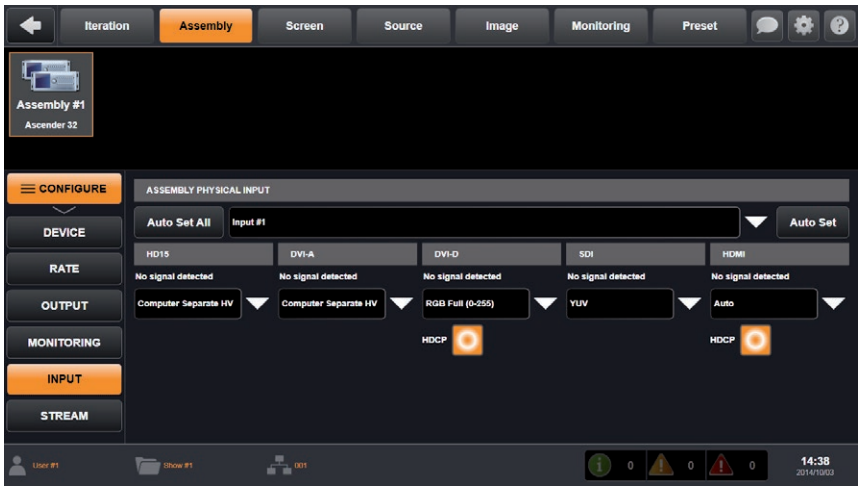


•**Configuring the device monitoring outputs:**

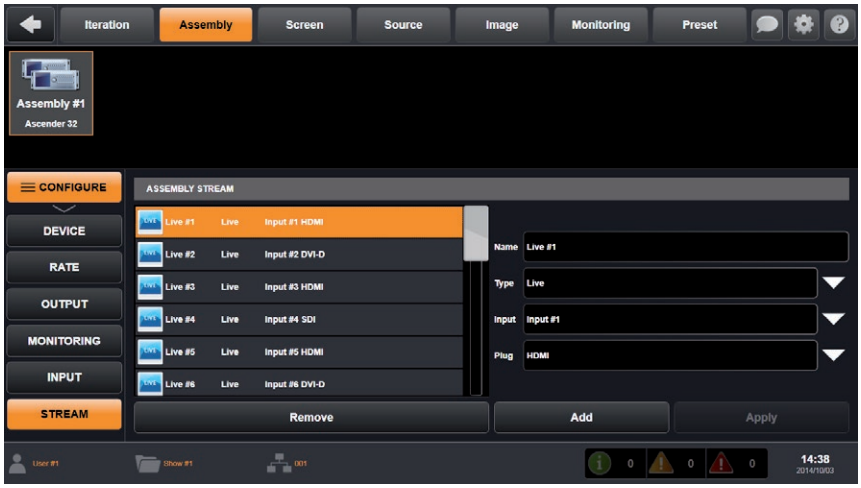
In the left menu, select the **CONFIGURE / MONITORING** option then select the assembly for which you want to configure the monitoring outputs: Select one of the physical monitoring outputs in the list then adjust the settings accordingly (Rate, Format, HDCP protection, Gamma, signal type…).



• **Configuring the device inputs:**
In the left menu, select the **CONFIGURE / INPUT** option then select the assembly for which you want to configure the inputs: To automatically configure all the inputs, simply press the **Auto Set All** button. However, if you prefer to configure each input individually, select one of the inputs in the list, then press the **Auto Set** button. If the input signal type has not been detected or set up properly, you can adjust it manually directly in the corresponding list.



• **Configuring the streams:**
In the left menu, select the **CONFIGURE / STREAM** option then select the assembly for which you want to configure the streams: To add a new stream, enter the name of this stream then select the stream type (Live, Frame or Logo). For a Live stream, select the desired input and plug. For a Frame or a Logo stream, simply select one of the frames or logos available in the list, When ready, press the **Add** button. To edit existing stream properties, select a stream in the list and adjust the desired properties.



When done, press the **Apply** button to save your changes. To delete a stream, simply select the corresponding item in the list and press the **Remove** button.

• **Configuring the stream image and keying settings:**
In the left menu, select the **IMAGE** option then select the assembly for which you want to configure stream image and keying settings. Select the **ASPECT, CROP, FILTER, OPTIMIZE** or **KEYING** option then select a stream in the list to adjust the corresponding settings.
Note that freezing the stream might help you to adjust the settings; also, you might want to grab a new snapshot once you're done editing the settings.

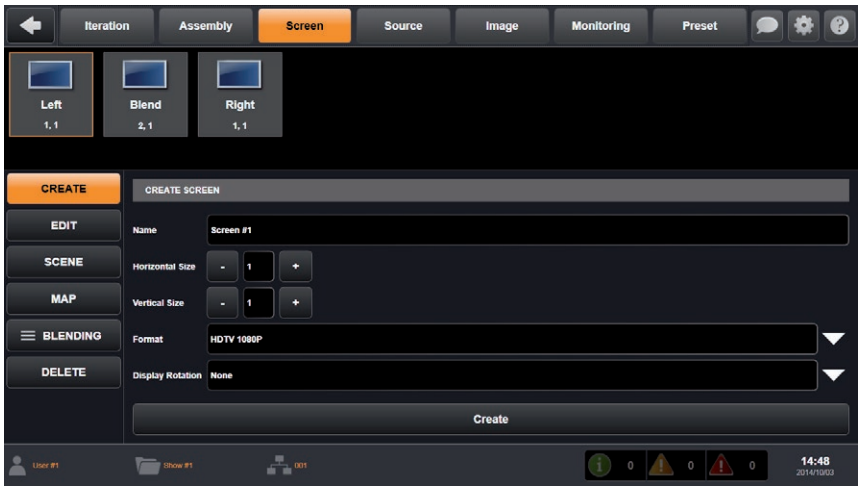
This method requires a stream to be properly assigned to a layer on the Program, prior to being able to adjust the corresponding image settings. If this is not the case, the stream appears grayed in the list and cannot be selected. This method is useful when some adjustments need to be done on a specific stream during the show. If however you want to adjust the settings of several streams during the setup, you should use the method described in **chapter 4.1.10 "Stream image configuration"**.

4.1.7 Screen configuration

The **Screen** page allows you to manage screens:

• **Creating a new screen:**
Select the **CREATE** option in the left menu and then enter the name of the screen. Please choose a name

as short and explicit as possible as it will be displayed on LCD keys of the **Vertige™** front panel. Adjust the horizontal and vertical size (values > 1 to build Hard/ Soft Edge) then select the screen format (default is HDTV 1080p). You can also indicate the rotation of your displays in increments of 90 degrees. When ready, press the **Create** button.

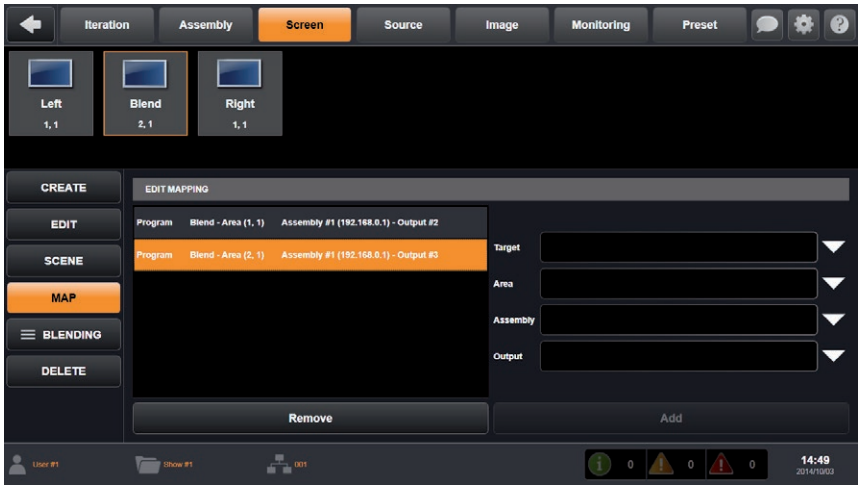


• Deleting a screen:
In the left menu, select the **DELETE** option. Select the screen you want to delete and then press the **Delete** button.

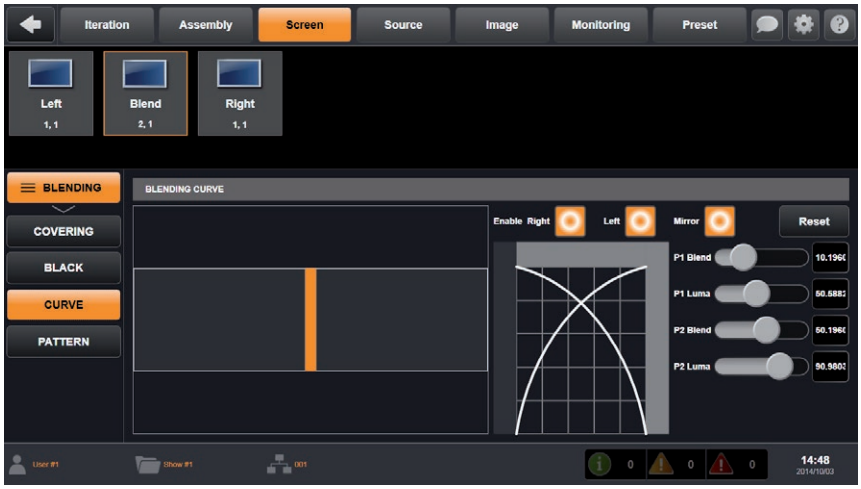
This action cannot be undone.

• Configuring the scene:
In the left menu, select the **SCENE** option. Select the screen you want to move in the scene then press **Move Left** or **Move Right** button.

• Configuring output screen mapping:
In the left menu, select the **MAP** option. Select the screen you want to edit the outputs mapping for. To map one of the physical outputs available to this screen or to a specific area of this screen (Hard/Soft Edge), select first the target (Program or Preview), then select the area of the screen. Select the assembly containing the device that will control this screen then select the desired output. When ready, press the **Add** button. To remove an existing output screen mapping, select it in the list, then press the **Remove** button.



Configuring Multi-Projector Soft-Edge Blending:
In the left menu, select the **BLENDING** option then select the screen (with multiple outputs) you want to configure. First of all, select the **PATTERN** option then select the **GRID TEST** pattern. Now adjust your video projectors properly (alignment).
Remember that you can adjust the number of lines and rows on the Grid Test pattern. Then select the **Soft Edge Centering** test pattern and select the

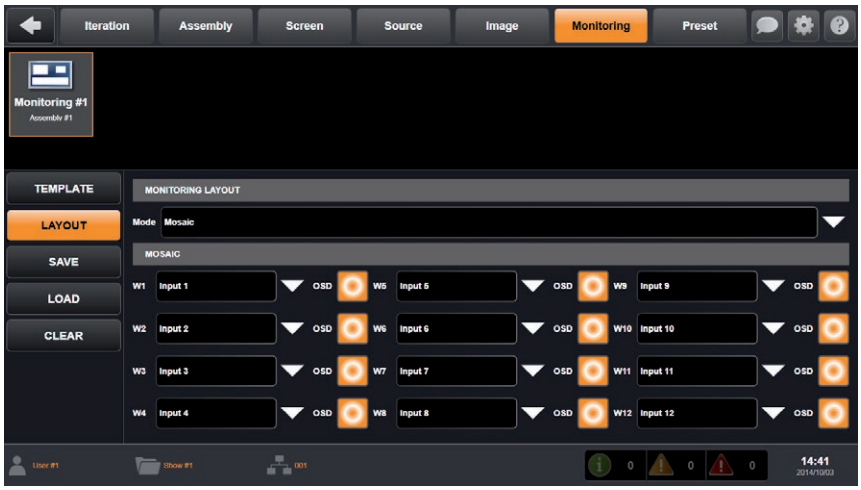


COVERING option. Choose the covering area you want to adjust.
Now simply align the two dotted lines, by increasing the covering value. Once your covering area is well defined, you need to adjust the black levels: select the **BLACK** option then select an area into the overview of your Soft Edge to display the corresponding settings on the right panel. Then adjust the black levels for each side using the R,G,B sliders. The goal here is to have the same black level on all areas of your screen.
Then you will adjust the black area, pixel by pixel. It will remove the last white band that can appear when you use DLP projectors. When done, select the **CURVE** option: Enable individual blending in order to activate the blending curves. You can tweak the curve by moving the 2 points. Do the same for left and right or enable the blending curves symmetry.

4.1.8 Monitoring configuration

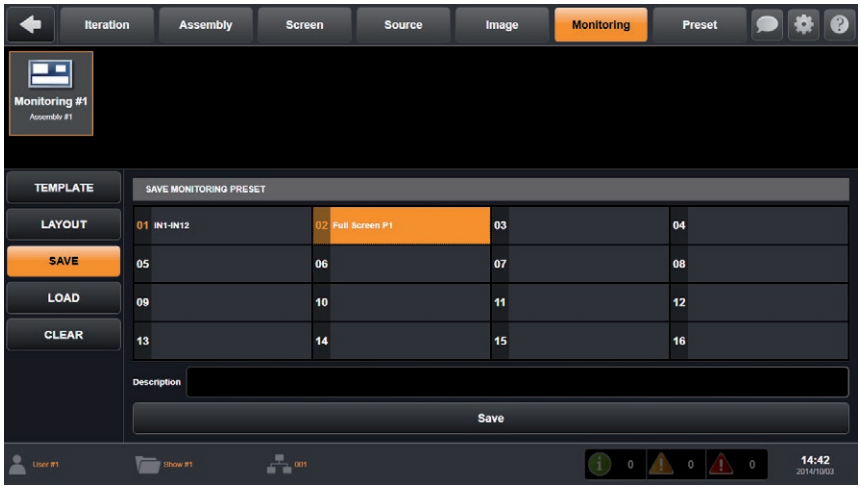
The **Monitoring** page allows you to manage monitoring outputs:

• **Configuring the display mode and widget(s) source:**
Select the **LAYOUT** option in the left menu then select the monitoring output you want to configure. Select a display mode (Mosaic with several widgets or Full Screen) then adjust the source(s) and OSD option(s). Note that widgets position and size cannot be adjusted at the moment.

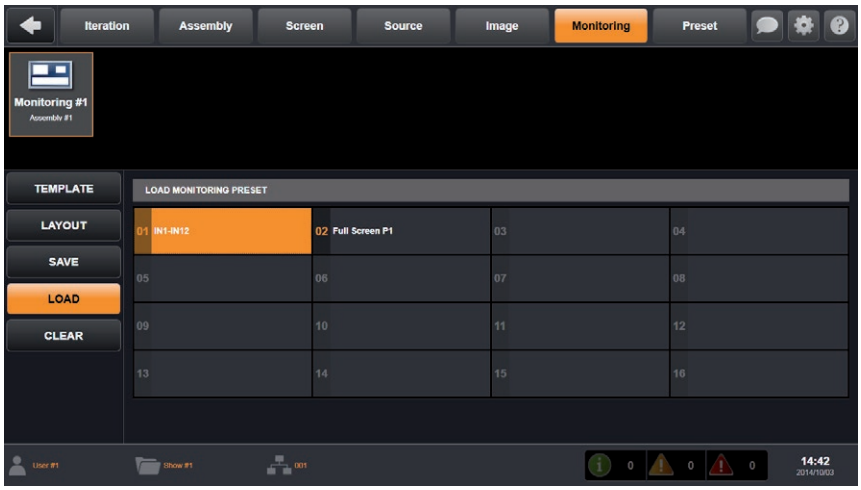


• **Applying a mosaic template:**
Select the **TEMPLATE** option in the left menu then select the monitoring output for which you want to apply a mosaic template. Browse the templates then select the one you want to apply. Check the **Keep Sources** option if you want to preserve the current Mosaic widgets source. When ready, press the **Apply** button to overwrite the current configuration.

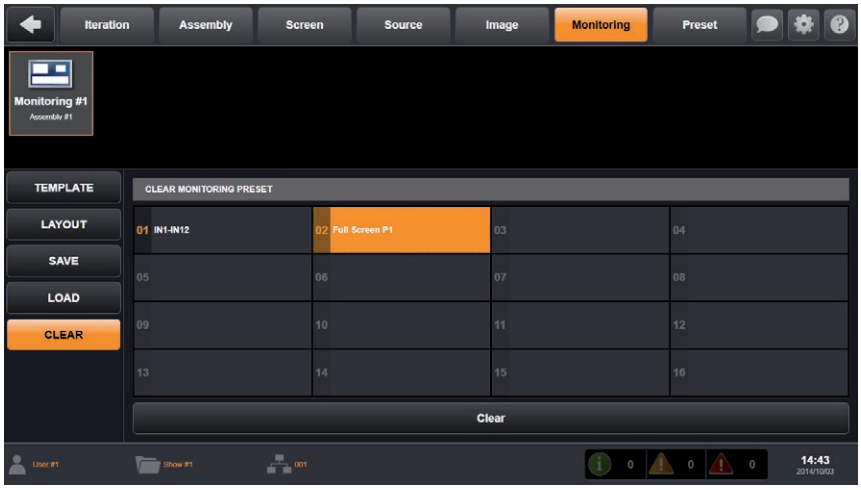
• **Saving a monitoring preset to memory:**
Select the **SAVE** option in the left menu then select the monitoring output for which you want to save the current configuration to memory (16 memory slots available). Select the slot where the current configuration will be saved and optionally enter a description. When ready, press the **Save** button.



• **Loading a monitoring preset from memory:**
Select the **LOAD** option in the left menu then select the monitoring output for which you want to load a preset from memory. Select one of the slots to automatically recall the corresponding preset from memory and update the monitoring display.



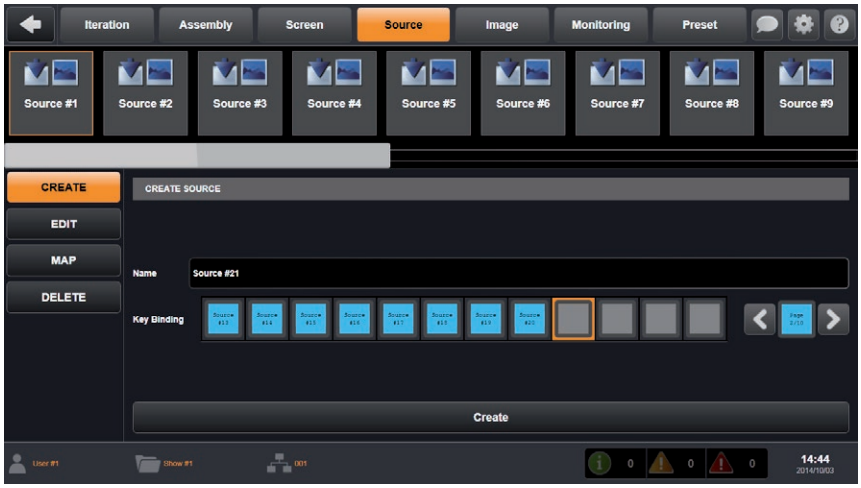
• **Erasing a monitoring preset memory:**
Select the **CLEAR** option in the left menu then select the monitoring output for which you want to clear a monitoring preset memory. Select the desired slot and press the **Clear** button.



4.1.9 Source configuration

The **Source** page allows you to manage sources:

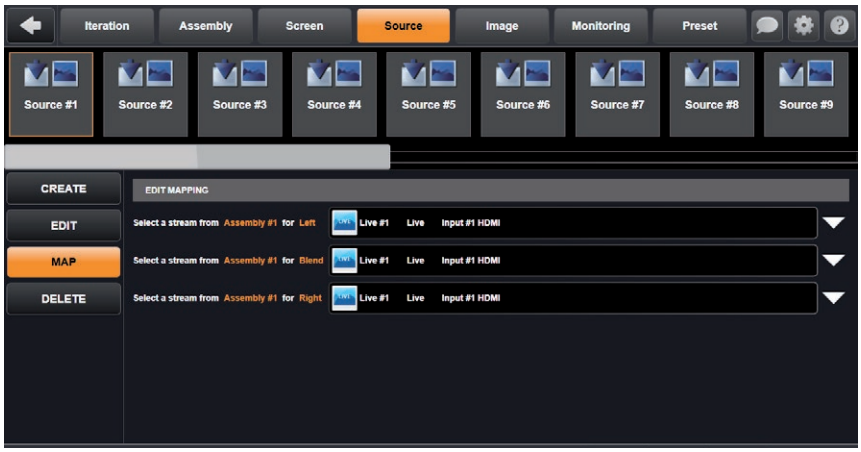
• **Creating a new source:**
Select the **CREATE** option in the left menu and then enter the name of the source. Please choose a name as short and explicit as possible as it will be displayed on LCD keys of the **Vertige™** front panel. Bind this source to a LCD key in the front panel. When ready, press the **Create** button.



• **Deleting a source:**
In the left menu, select the **DELETE** option. Select the source you want to delete and then press the **Delete** button.

This action cannot be undone.

• **Configuring the streams mapping:**
In the left menu, select the **MAP** option then select the source for which you want to configure the streams mapping. For each screen defined in the current show, select the stream that will get displayed on the selected layers when the corresponding source key is pressed in the front panel of the **Vertige™**.

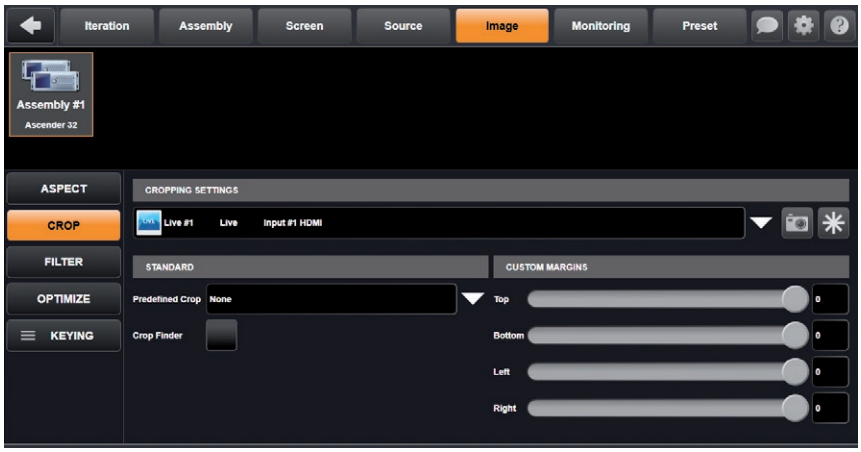


4.1.10 Stream image configuration

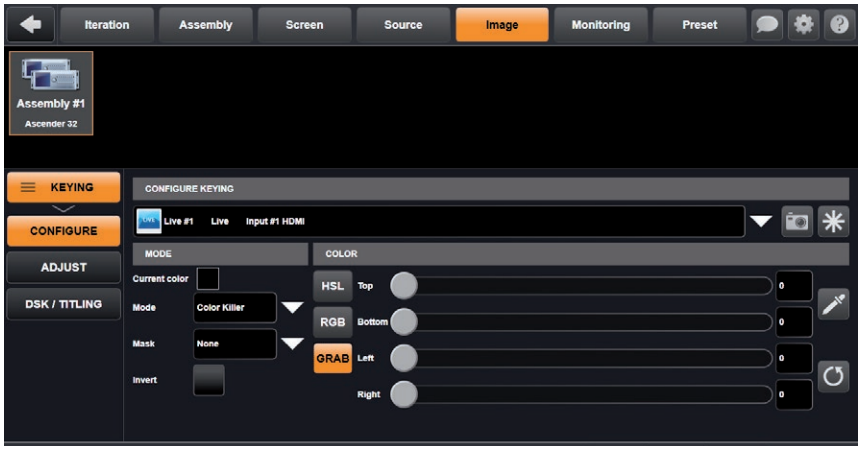
The Image page allows you to adjust stream image settings (aspect ratio, cropping, color corrections…) and configure keying effects.

Configuring stream image settings or keying effects using the **Image** page is particularly well suited when several streams need to be reviewed and adjusted, typically after having added new streams to an assembly and before running a show.
Selecting a stream here will automatically overwrite the related screen presets (Preview and Program) with no possibility of restoring them after the configuration process: the selected stream will be automatically displayed full screen and all other layers will be hidden.
If you want to configure a stream image setting while preserving the screens presets, please read chapter **4.1.6 "Assembly configuration".**

• **Configuring the stream image settings:**
Select the assembly for which you want to adjust the image settings of a stream. Select the desired stream in the list then select the **ASPECT, CROP, FILTER** or **OPTIMIZE** option to adjust the corresponding image settings.Note that freezing the stream might help you to adjust the settings; also, you might want to grab a new snapshot once you're done editing the settings.



• **Configuring keying effects:**
Select the assembly for which you want to configure the keying effects and select the **KEYING / CONFIGURE** option. Select the desired stream in the list then select the keying mode:



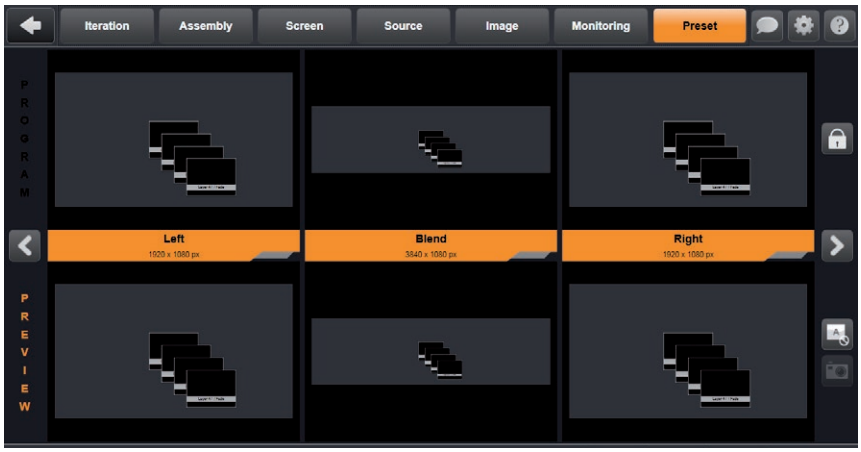
- **COLORKILLER:** classic color keyer deleting a specific color space defined by user.
- **LUMAKILLER:** Luma color keyer deleting a black & white range.
- **CREMATTE®:** The algorithm of color keying developed by Analog Way. This keying will perform advanced effects on transparent items, smooth edge and color correction.

Keying setup can be done either by setting directly color references and tolerances or by using an assistant (**GRAB** button). When using the assistant, select the color area you want to mask and click the **PICK** button. Color areas are cumulative; if the results are not satisfactory, click the **RESET** button then grab another area.

For further information on keying effects configuration, please read the corresponding LiveCore™ product user manual.

4.1.11 Preset page

The **Preset** page allows you to view the content of your screens (Program and Preview).
This page can display up to 6 screens simultaneously. If your configuration contains more than 6 screens, press the left/ right arrows on the touchscreen to navigate left or right and reveal hidden screens.



- **Locking the Program**

Press the **LOCK** button to prevent any direct changes on the Program. Press this button again to unlock the Program.

- **Updating selected layer snapshot**

Select the layer for which you want to update the stream snapshot. Press the **SNAPSHOT** button.

- **Displaying/Hiding empty layers**

Press the **HIDE EMPTY LAYERS** button to hide all empty layers (i.e. with no stream assigned).
Press this button to display all layers again.

5. OPERATING THE VERTIGE™

5.1 Layer selection and source switching

To be able to make a source selection using the **Vertige™** console, you must first select at least one layer. The **Vertige™** layer selection buttons are powerful tools for fast and efficient selection of layers for source selection and layer manipulation.

Layers which are selected will be highlighted on the touchscreen. At any time, you may have zero, one, or many layers selected on either Program or Preview. To select a layer, there are several options:

5.1.1 Selecting layers from the touchscreen

At any time when the **Preset Page** screen is open, a layer may be selected by directly touching it on the touchscreen. Touching another layer will release your current selection and select the new layer.
To select multiple layers, or remove a layer from your selection, you will need to use the selection modifier keys on the **Vertige™** keyboard. i.e. **[+]** and **[-]**.

5.1.2 Selecting layers from the layer selection buttons

At any time, a layer or group of layers may be selected by directly pressing one of the layer selection buttons. There are several blocks of buttons within the Layer section:

- **Select layers by Screen**

The first block of buttons is used to select/deselect all layers on a given Screen. After using the arrow keys to

navigate to the desired screen, pressing the large LCD button at the center of this group will select all of the layers on the desired screen on Program or Preview.
For example, if you press Screen 2, all of the layers on screen 2 will be selected.

- **Select layers by Layer depth**

The second block of buttons is used to select/deselect all layers at a specific depth. After using the arrow keys to navigate to the desired depth, pressing the large LCD button at the center of this group will select all of the layers at the desired depth on all screens on Program or Preview.
For example, if you press “layer 3”, all layers with the depth 3 will be selected on all screens.

5.1.3 Selecting layers on Program vs Preview

At all times of operation, the focus of the preset editing will always be on either Program or Preview. If you are working on Program, the large **PROGRAM** button will be lit, and the Program section will be highlighted on the touchscreen. If you are working on Preview, the **PREVIEW** button will be lit, and the Preview section will be highlighted on the touchscreen.

Based on this selection, all operations such as preset loading, source selection, layer selection, etc will be directed to the Preview or Program.

5.1.4 Using the layer selection modifier keys

The Layer selection modifier keys allow you to quickly adjust your selection of layers:

- **SELECT button:**

The **SELECT** button will be illuminated to indicate the default configuration. In order to select a layer, simply press any layer with your finger on the touchscreen. If no layer is visible on your screen, you need to use the single button.

- **SINGLE button:**

The **SINGLE** button allows you to select only 1 layer. This layer to be selected is at the intersection of the **SCREEN** button and **DEPTH** button. For example, if the **SCREEN** button is 2 and the **LAYER** button is 3, pressing the **SINGLE** button will select the layer 3 on the screen 2. Using the arrow left and right you can adjust the screen number or the layer depth number.

- **ALL button:**

Press the **ALL** key to select all layers on all screens.

- **NONE button:**

Press the **NONE** key to deselect all layers.

- **[+]:**

Press and hold the **[+]** key to add layers to the current selection. While holding the **[+]** key, any new layer selection from the touch screen or layer selection buttons will be added to the currently selected layers.
For example, select your camera layer 1 then hold the + button and select all others camera layers.

- **[-]:**

Press and hold the **[-]** key to remove layers from the current selection. While holding the **[-]** key, any new layer selection from the touch screen or the layer selection buttons will be removed from the currently selected layers.

- **Examples:**

Select the main layer on Center screen

To select the main layer on the center screen (screen 2 in this example), there are several options, depending on your preferred work style:

Since you are selecting only one layer, you could quickly select it using the touch screen.
You could also navigate the **SCREEN** selection button to the center screen, navigate the **LAYER** selection button to the Layer 1, and then press the **SINGLE** button in the Layer selection area.
You could also select all of the Layer 1 layers, and use the **[-]** key to deselect the unneeded layers.

Select all PIP layers on side screen

To select the PIP layers (layers 2 and 3 in this example) on the side screens (screens 1 and 3 in this example), there are several options, depending on your preferred work style:
You could select the first layer using the touchscreen, then press and hold the **[+]** and select the additional layers using the touchscreen.
You could select Layer 2 **[+]** Layer 3, and then **[-]** screen 2, which would result in only layers 2 and 3 on screens 1 and 3 being selected.

5.2 Source selection

The **Source** section allows you to fill any layer or group of layer with a source. All sources have to be defined before, please see source chapter.

Use the left/right arrow to navigate into the source page. Then simply press the desired source in order to fill the layer.
Available sources will have a blue button and the selected source will be yellow. A source can be affected to several layers at the same time.
The **NONE** button clean the source from the layer, your layer will be empty.

Be careful when you try to use a source where the input is already used in Program with another plug, the source selection will enable the new plug and the result will be a change of the source into your Program (with a cut effect).

5.2.1 Making live switches directly to Program

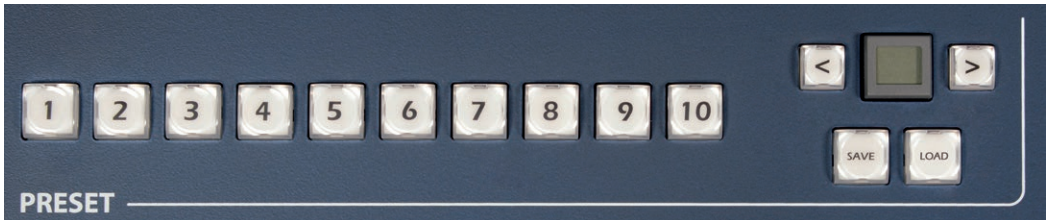
In many cases, it is preferred to make all of your selections and edits on the Preview, and use the **TAKE** or T-bar to transition your Preview to Program. The **Vertige™** will allow you to work on Preview, or directly on Program.
To work directly on Program, select a layer on Program using the touchscreen, or press the **PROGRAM** button.

While working on Program, you can switch inputs in any selection of layers instantly with a cut. When switching cameras for live entertainment, you may wish to utilize the instant cut between sources by switching directly on Program.
You can also load presets or make any other layer parameter adjustments directly on Program.

5.2.2 Switching between plugs on the device inputs

The **Vertige™** will allow you to create streams and sources to select each of the different input plugs. These should be created in the Assembly setup, and assigned to the keys in the Source setup. However, use this with caution.

5.3 Preset selection

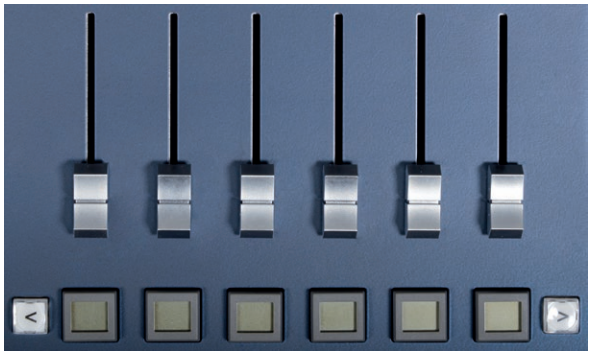


5.3.1 How to save a preset

To save a preset, first create the content that you wish to save on either the Program or Preview screens. To save a preset from Program, make sure that the **Program** button is selected. To save a preset from Preview, make sure that the **Preview** button is selected. To save a preset, press the **SAVE** button next to the preset bank and page navigation buttons. Then navigate to the preset slot that you wish to save to, and press once on the desired preset button. The preset will turn yellow, indicating a successful save.

Preset slots that already contain a saved preset will be indicated in yellow. Empty preset slots will be indicated in green. If you attempt to save over an existing preset, you will have to confirm the operation by pressing on the blinking preset button a second time.

If you would like to exclude some screens from the preset memory, you will need first to 'deactivate' them before saving the preset. Please read chapter **5.6 "Transition section"** to understand how to activate/deactivate a screen.



The Save function will remain active until you manually switch back to load mode, so it is recommended to switch back to Load mode as soon as you are finished saving presets.

5.3.2 How to load a preset

First be sure that the **Preview** button is selected if you wish to load the preset to Preview, or that the **Program** button is selected if you wish to load the preset to Program.

To Load a preset, make sure that the **LOAD** button next to the preset bank and page navigation buttons has been selected. If it has already been selected, you do not need to press it again. Next, select the desired preset that you wish to load. The preset will be loaded to Program or Preview, depending on which button has been selected. Note that loading a preset will change the content of the relevant screens only, i.e. those that were active when the preset has been saved; other screens will be automatically 'deactivated' but their content will not change.

If you have loaded your preset to Preview, you will need to press **TAKE** to view it on the Program screens.
If you load a preset directly to Program, the new attributes including sources, size, position, border, etc will cut into place.

5.4 Control selection

Into the control menu, you can choose to work on Program or Preview. Simply press the Program or Preview button to choose where to work. Remember that the Program/ Preview control change when you press a layer on the touchscreen.

- **CLEAR button:**
Press the **CLEAR** button twice to clear all selected layers. It will remove the source and at the same time reset the selected layers.

- **UNIFY button:**
Press the **UNIFY** button twice to homogenize all selected layers settings from one destination (Program/Preview) to the other.

5.5 Edit selection

Within the EDIT section you will find all the layers attributes, including position, size, border, transparency, etc... When making selections, the new attributes will be applied to all your current layer selection. Attributes can be edited on Program or on Preview, at any time, even during a take.

The block containing the numeric keypad is contextual and also provides access to pages of shortcuts, tools, layer presets (Position, Size, Border, Effect ...).

For all numerical settings, you can choose to update them roughly via the Joystick, finely via the encoders, or directly via the numpad.

If you need a specific value, please press the button above the encoder, and it will enable a numeric entry keypad on the contextual EDIT buttons. Use the numpad to enter the desired value and press **ENTER**.

Remember that you do not need to operate layer by layer but that you can give the same attribute to several layers at the same time. You will save time and win productivity.

- **POS button:**

Pressing the **POS** button turns the contextual button into a layer position selection. Selecting **TOP LEFT** or **MIDDLE** will automatically give this position to the selected layers.
You can use the Joystick to manually move the PIP.
The encoder will help you to finely adjust the position to the right pixel
You can also enter the exact value by pressing on the desired attribute button to enable the numpad for direct numeric entry.

- **SIZE button:**

Using the size attributes, you can adjust the size of your PIP using the X, Y or Z (keep the H&V ratio) axes of the joystick or giving to the PIPs the right aspect ratio thanks to the contextual menu.
You will also find three convenient shortcuts: **Screen Size** (full screen), **Quad Size** (1/4 of the screen) and **Source Size** (1:1).
If you are making fine adjustments, there is an H&V control to make size changes without changing the aspect ratio of your PIP.

• ZOOM FACTOR button:
The **ZOOM FACTOR** button allows you to give the layer a zoom factor in order to zoom into the image. The zoom factor can be adjusted manually or with shortcut thanks to the contextual button.
This feature should be used in conjunction with the Zoom Position feature.

• ZOOM POS button:
The **ZOOM POSITION** button should be used only after using the **ZOOM FACTOR** button. (The zoom position will have no effect until the zoom factor is different from x1) It will help you to choose where to zoom into the zoomed image. Simply use the joystick or the contextual button.

• BG CUT button:
The background cut feature is under the **ZOOM FACTOR** contextual button, it helps you to automatically calculate the right zoom position/factor in order to match all layers to do one image.
Remember that the background cut feature give to you layer a specific zoomposition/factor, you need to press it again each time you will change their sizes or their positions.
If you want to disable the background cut zoom or disable any zoom, please press **ZOOM FACTOR** then **ZOOM x1**.

• BORDER button:
The **BORDER** button gives to all selected layers the chosen border. Press the **BORDER** button then choose between all border types (edge/shadow etc…)
Giving the selected border, the fine tuning button will allow you to change the width and height of the border.

• BORDER COLOR:
The **BORDER COLOR** feature is only available after you have chosen a border type. You can give to the border the color displayed into the contextual menu, or manually adjust it with the joystick or the fine tuning buttons.

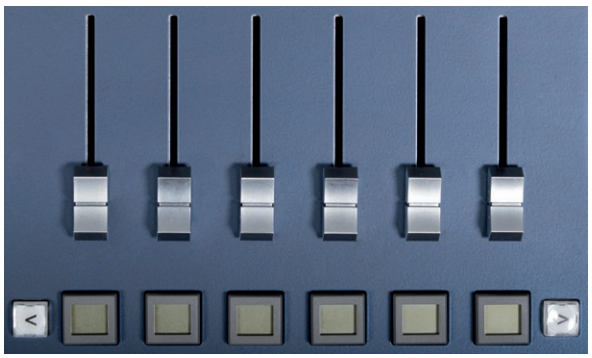
• IN / OUT button:
The **IN** and **OUT** buttons helps you to configure the opening and the closing effect of your layers.
The opening effect is used when a layer is transitioning between “empty” and a source, and also between two sources.
The closing effect is used when a layer is transitioning between a source and “empty”.
As an example: First select some layers, then press the **IN** button. Various opening effects will be displayed on the contextual buttons (slide, wipe etc..).
Next, select the desired effect and then the desired direction (left/right/top etc..). The same settings can be done with the **OUT** button to configure the closing effect of your layers.

You can also use the fine tuning buttons to modify the start and the end of the opening/closing.
For example, select the desired effect and then set up the start of the opening at 40% and end at 80%. During the take, this layer will start its effect at 40% of the global take duration and finish at 80% of the global take duration. This relative timing will occur even if the TAKE is being controlled by the T-bar.
The same timing operations can be configured on the closing effect.

5.6 Transition section

Within the transition section, you will find how to TAKE your configuration on the Program.
You have different options:

- The T-bar for a manual smooth transition
- The Take button for an automatic timed transition
- Independent faders for a manual transition per screen



Below each fader you will find a screen button, you can use the left/right arrow to move this screen list. Each fader will transition the screen which is written on the button.
You can stop a transition for a screen, and start transitioning another screen ; each screen is independent from the others.

You can lock/unlock a screen by pressing its corresponding LCD key:
- Yellow color means the screen is 'active' (unlocked) and is therefore allowed to make a transition.
- Blue color means the screen is 'inactive' (locked) and is not allowed anymore to make a transition or progress into one.

Note that this state is stored / recalled when saving / loading a preset.

Note that the preset page on the touch screen displays the same screens, and allows you to lock/unlock them as well by pressing the screen status area.

Below the T-bar, you will find a transition time for each screen. When you take with the automatic TAKE button, the preset will take giving the chosen transition time for each screen.
You can adjust the transition time at any moment, even after loading a preset.

5.7 Control transition section

Into the control transition section, you will find:

• **FILTER SELECT button:**
The **FILTER SELECT** button allows you to quickly edit the transition filter based on current layer selection.

• **TOGGLE button:**
Enabling the **TOGGLE** button turns your device into the toggle preset mode. That means that after a take, your old Program becomes your new Preview.

• **STEP BACK button:**
The **STEP BACK** button allows you to restore on Preview the configuration of the Program before the last transition.

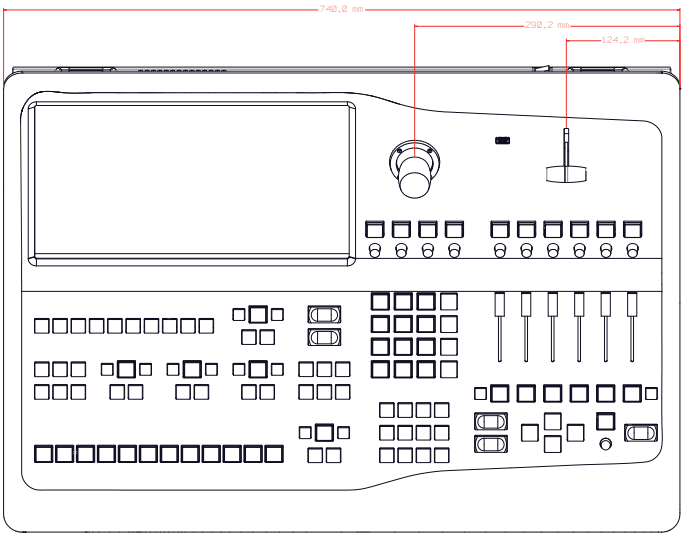
• **TAKE CUT button:**
Pressing the **TAKE CUT** button, you will take your Preview to Program but without all the programmed effects. They will be all replaced by the cut effect.

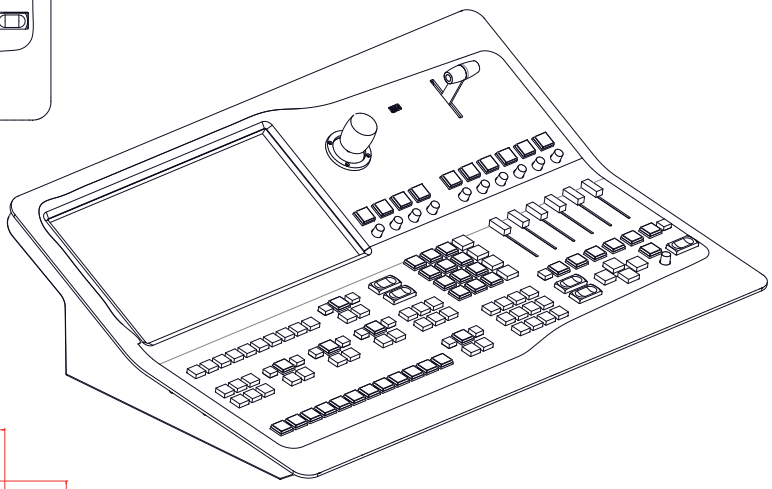
• **TRANSITION DURATION button:**
You can enable or not this button by pressing on it. The yellow color means this function is enabled. When enabled, this duration overrides all the specific screens durations.

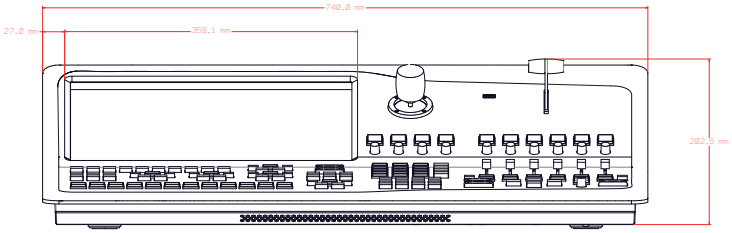
• **TAKE button:**
The **TAKE** button allows you to send your selected Preview screens to Program.

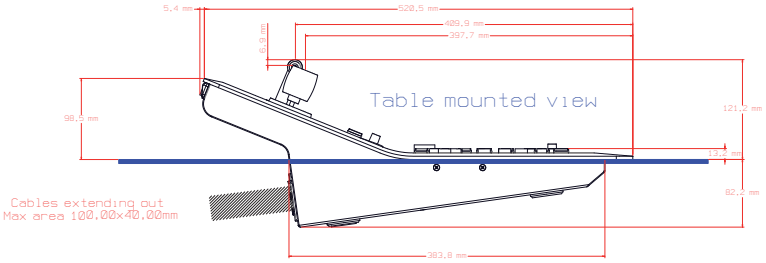
• **FX / ALPHA button:**
The **FX/ALPHA** button allows you to select the faders operating mode.
The **FX** mode is the default configuration where the faders act like a T-bar for each screen.
In a future version, the **ALPHA** mode will allow you to play with the layers transparency.

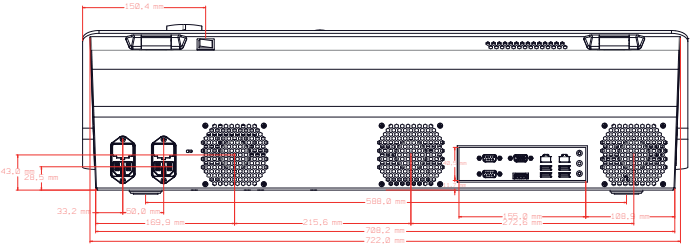
6. MECHANICAL DIAGRAM

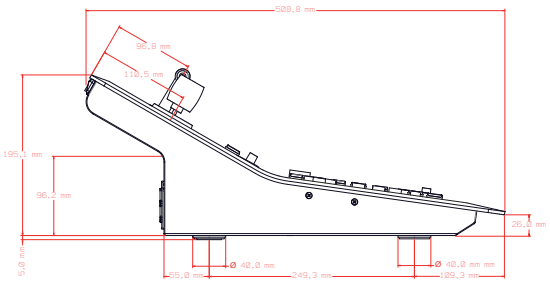












Do not block front and rear ventilation openings

7. WARRANTY

7.1 Warranty conditions

Analog Way warrants the product against any defects in materials and workmanship for a period of three (3) years from the date of purchase when used in accordance with the user's manual and standard industry practices.

- In the unlikely event of any malfunction from such defects during the warranty period, Analog Way will, at its discretion, repair or replace the defective units.
- The warranty does not apply if the product is determined to have been:
  - Improperly installed or abused,
  - Handled with improper care,
  - Used or stocked in abnormal conditions,
  - Modified, opened,
  - Damaged by fire, war, or Natural disasters (Acts of God)
- Analog Way's direct employees are solely authorized to make this determination.
- Analog Way reserves the right to refuse for repair and service a product for which the warranty is void.
- In no way shall Analog Way be responsible for direct or indirect loss of profit or consequential damages resulting from any defect in this product.

NOTE:
Analog way provides a warranty extension of 2 years, it includes parts, labor and return shipping. If you are interested, please get contact with your area sales representative.

7.2 Repair and return instructions

These Return Material Authorization (RMA) regulations determine the procedure to be followed when returning defective product. The aim is to ensure fast and simple handling of the returned product and bring the best satisfaction

In the unlikely event that a product is required to return for repair, please call the regional Maintenance center / Customer Service, and ask to receive a Return Material Authorization number (RMA). Three regional maintenance centers are available depending on your location. *(See chapter: **8. Contact information**)*

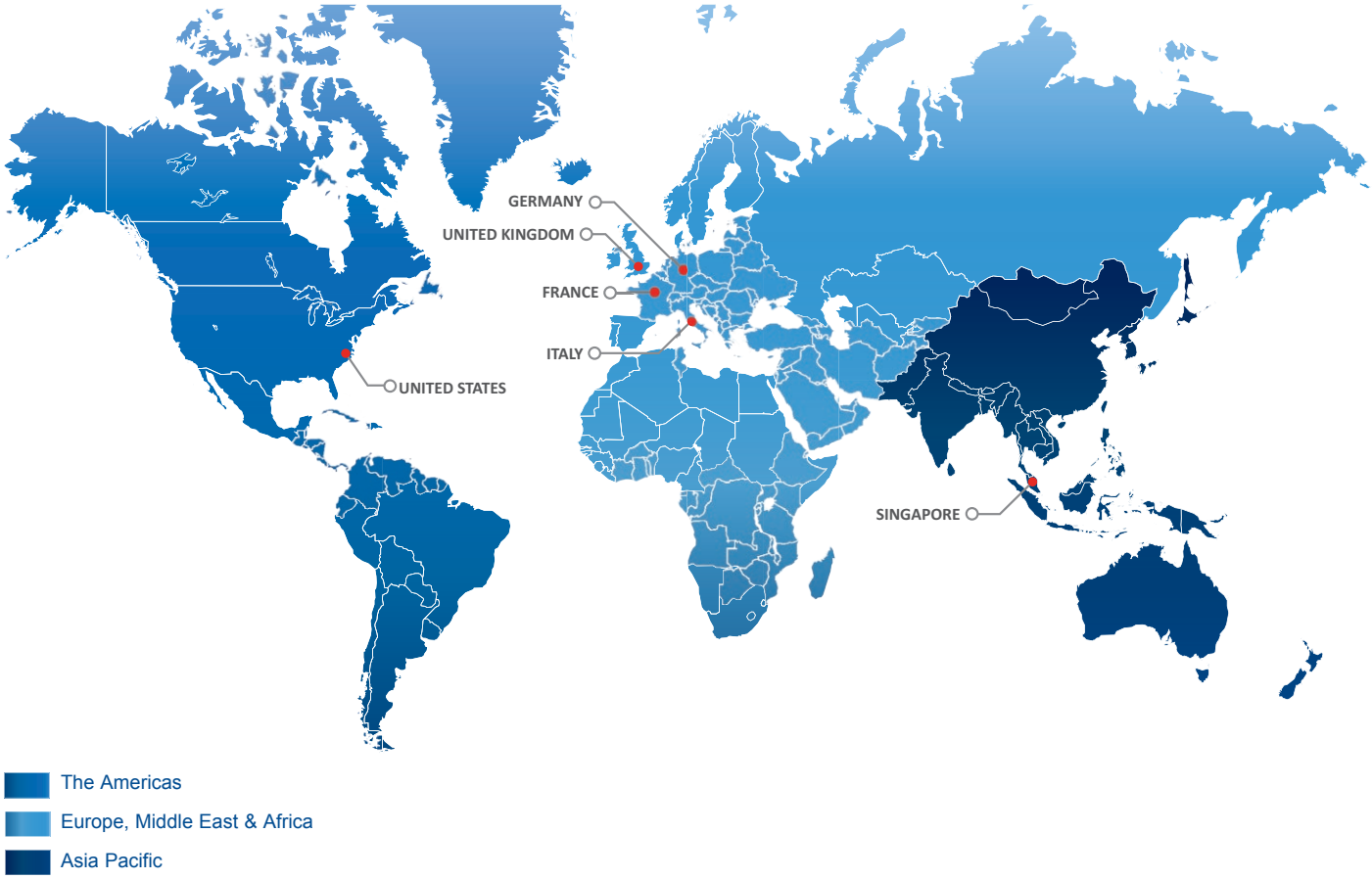
- Before sending any device to Analog Way, please contact us to obtain a Return Material Authorization (RMA) number. Please have the model and serial number available and the reason for calling.
- RMAs are valid for 30 days, after which a new RMA must be requested.
- Package the unit securely in the original shipping materials or suitable equivalent. Analog Way is not responsible for damage which occurs due to improper packaging. The customer assumes responsibility until the unit arrives at our facility.
- Out-of-warranty products will be charged evaluation fee if no problems are found or if you choose not to proceed with the repair.
- Discontinued products are not admitted for return and repair.
- Be sure to include the RMA number clearly on the shipping label or on the exterior of the package.
- No unit will be accepted without a valid RMA clearly visible.

7.3 Return conditions

In the unlikely event that you want to return the product, please call the regional Maintenance center / Customer Service

- If you are unhappy with the performance of any product purchased from us, you can return it within 30 days of purchase.
- Returned equipment must be in original condition with all accessories and packaging materials.
- Returns may be subject to a refurbishment and/or restocking fee.

8. CONTACT INFORMATION



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